

STATE OF SOUTH DAKOTA
DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
Application for a Permit to Inject - Class II Underground Injection Control

Return To: PMB 2020
SD Department of Environment and Natural Resources
Ground Water Quality Program
523 East Capitol Ave. - Joe Foss Building
Pierre SD 57501
Telephone 605.773.3296
Fax 605.773.6035

RECEIVED
JUN 30 2016
Dept. of Environment &
Natural Resources
GROUND WATER QUALITY

1.0 General Information

1.1 Application Type

- New Permit to Inject
- Major Modification to Existing Permit to Inject
- Minor Modification to Existing Permit to Inject

1.2 If requesting a new permit or major modification, provide a brief description of the new activity or proposed modification (include additional attachments as needed).

Please See Attached.

- 1.3** If requesting a minor modification, select the type(s) of modification requested (ARSD 74:12:07:09)
- Correction of typographical errors and language changes that have no legal or substantive effect
 - More frequent monitoring or reporting proposed by the permittee
 - A change in ownership or operational control of the well if the secretary determines that no other change in the permit is necessary, provided a written agreement containing a specific date for transfer of responsibility for the injection well, coverage, and liability between the current and new owner or operator has been submitted to the secretary pursuant to ARSD 74:12:07:06
 - A change in quantities or types of fluids injected which are within the capacity of the injection well as permitted and, in the judgement of the secretary, would not interfere with the operation of the injection well or its ability to meet conditions described in the permit, and would not change its classification
 - A change in construction requirements approved by the secretary pursuant to this chapter if the alteration complies with the conditions of the permit to inject and this section
 - Amendment of a plugging and abandonment plan which has been updated pursuant to this article
 - Recementing, reworking, or reconditioning a well
 - Deepening, extending, or sidetracking an existing well within the permitted injection horizon

As described in ARSD 74:12:07:09, if the department determines that a minor modification request has the potential to degrade or threaten freshwater resources, it will be treated as a major modification and subject to the Notice of Recommendation procedures (ARSD 74:12:09)

1.4 Operator Information (ARSD 74:12:07:03(8))

Name:	Continental Resources, Inc
Address:	20 North Broadway Ave. Oklahoma City, OK 73102
Telephone:	405.234.9000
Email:	clr.com

1.5 Basic information about the well(s) covered by the requested permit to inject

API Number	Well Name	Legal Location	Latitude	Longitude
See Attached				

The information required below should be included as attachments to the application form. The following should be used as a checklist to ensure all necessary material is submitted. The department recommends using the same numbering system as shown in the application form; however, if a different system is used please use the location box to identify the location of the information in the application.

1.6 Affidavit of Delivery (ARSD 74:12:07:04) - Include an affidavit showing the names and addresses of the parties to whom the application has been delivered.

Included

Location: Will send out recommendation for permit to inject when received.

2.0 Specific Application Requirements

2.1 Maps (ARSD 74:12:07:03(1))

2.1.1 Vertical Wells (ARSD 74:12:07:03(1)(a))

A one-half mile fixed radius area of review plat which shows the location of the injection well or wells, existing or proposed; the location of all oil and gas wells; the location of all water wells, active and abandoned; the location of all other wells, including plugged and abandoned wells; abandoned locations; dry holes; current drilling locations; the names of operators; the surface and mineral owners; and each offset operator

Included

Location: See Attached

2.1.2 Horizontal Wells (ARSD 74:12:07:03(1)(b))

A one-half mile fixed radius area of review plat extending in all directions from the horizontal well and any sidetracks. The plat must show the location of the injection well or wells, existing or proposed; the location of all oil and gas wells; the location of all water wells, active and abandoned; the location of all other wells, including plugged and abandoned wells; abandoned locations; dry holes; current drilling locations; the names of operators; the surface and mineral owners; and each offset operator

Included

Location:

2.2 Formation or formations from which oil, gas, and water wells are producing or have produced within the area of review (ARSD 74:12:07:03(2))

Included

Location:

2.3 The name, stratigraphic and structural description, and depth of the receiving formation or formations and the overlying and underlying confining zone(s) or formation(s) (ARSD 74:12:07:03(3))

Included

Location:

2.4 The well type, construction, spud date, total depth, formation tops, record of completion or recompletion, and plugging for all oil, gas, and injection wells within the area of review, **and any additional pertinent information which the secretary determines is necessary to make an informed judgement on the issuance of a permit**, including drill stem tests and well logs for all oil and gas wells identified in the area of review (ARSD 74:12:07:03(4))

Included

Location:

2.5 Information on abandoned and active water wells within the area of review, as follows (ARSD 74:12:07:03(5))

2.5.1 Abandoned water wells:

2.5.1.1 The legal location

2.5.1.2 Well name

2.5.1.3 Method and supporting information on abandonment, if available

2.5.2 Active Water Wells

2.5.2.1 The legal location

2.5.2.2 Well name

2.5.2.3 An analysis of water quality, including information on total dissolved solids content, chlorides, sodium, sulfates, nitrates, and hydrocarbons

2.5.2.4 The construction program, including casing size and type, if available

2.5.2.5 Depth of the well, if available

2.5.2.6 A geologic / driller's log, if available

2.5.2.7 The water level and pump type, if available

Included

Location:

2.6 A description of the injection well's casing and the proposed casing program, and the proposed method for testing the casing for mechanical integrity before use as an injection well (ARSD 74:12:07:03(6))

Included

Location:

2.7 The geologic name and the depth to and interval of all freshwater resources which may be affected by injection (ARSD 74:12:07:03(7))

Included

Location:

2.8 Schematic drawings of the surface and subsurface construction details of the well with detailed drawings of the gauge connections (ARSD 74:12:07:03(9))

Included

Location:

2.9 The source and nature of the substance or substances to be injected, its viscosity, its compatibility with the receiving formation, including stability indices, and the estimated average and maximum daily amounts to be injected. If the nature of the injected fluid is produced water, a water quality analysis must be submitted and must include information on total dissolved solids content, chlorides, sodium, sulfates, nitrates, and hydrocarbons. (ARSD 74:12:07:03(10))

Included

Location:

2.10 The average and maximum estimated injection pressure (ARSD 74:12:07:03(11))

Included

Location:

2.11 A narrative description of any proposed production stimulation program, including a feasibility study, process description, and an explanation of how the data were determined, such as working calculations (ARSD 74:12:07:03(12))

Included

Location:

2.12 A list of wells identified in subdivision 74:12:07:03(1) in need of corrective action or where corrective action has been performed, and a written justification describing how the corrective action will protect freshwater resources. (ARSD 74:12:07:03(13))

Included

Location:

2.13 The injection zone characteristics including porosity, compressibility, and intrinsic permeability. Please include the reference or source of the information. (ARSD 74:12:07:03(14))

Included

Location:

2.14 The expected project life (ARSD 74:12:07:03(15))

Included

Location:

2.15 Surface owner name, address, and telephone number (ARSD 74:12:07:03(16))

Included

Location:

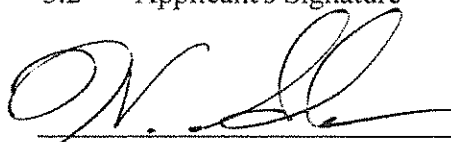
3.0 Certification of Applicant

3.1 Certification of Applicant (Form 13). The applicant is required to submit a notarized Certification of Applicant (Form 13). This form can be found at <http://denr.sd.gov/documents/form13.pdf> or by contacting the Ground Water Quality Program at 605.773.3296.

Included

Location:

3.2 Applicant's Signature



Signature

6/24/2016

Date

Nik Gardner

Printed Name of Person Signing

Associate Engineer

Title

UIC Class II Permit Application

Continental Resources is requesting to convert the following well to an injection well to enhance production from the Central Buffalo Area.

Well Name: CBRRU 24-31NH

Well Location: SESW Sec 31-T22N-R4E, Harding County, Buffalo, SD.

The application for a permit to inject shall contain the following complete information:

(1) A one-half mile fixed radius area of review plat which shows the location of the injection well or wells, existing or proposed; the location of all oil and gas wells; the location of all water wells active and abandoned; the location of all other wells, including plugged and abandoned wells; abandoned locations; dry holes; current drilling locations; the names of operators; the surface and mineral owners; and each offset operator;

See attached map.

NBRRU J-19H is operated by Luff Exploration

Brown E-29H is operated by Luff Exploration

Operator: Continental Resources is the operator of the CBRRU 24-31NH.

Working Owners:

Continental Resources Inc.

Betty Joy Njos Rev Trust Agreement

Penroc Oil Corporation

Mineral Owners

See Attached.

Surface Owner

Name: Tim and Tracey Brown

Address: 10723 Table Mountain Rd., Buffalo, SD 57720

(2) The formation or formations from which oil, gas, and water wells are producing or have produced;

Oil: Red River "B" Formation

Gas: Red River "B" Formation

Water: Red River "B" Formation, Fox Hills, Hell Creek, Inyan Kara, Madison & Minnelusa.

(3) The name, description (stratigraphic and structural), and depth of the receiving formation or formations and the overlying confining zone or formation;

Receiving formation(s): Red River "B" Formation 8,660.66 ft TVD.

The Red River "B" is a brown, fine-grained dolomitic mudstone with a thickness of 14 ft in the CBRRU 24-31NH.

Confining zone/formation(s): The CBRRU 24-31NH well enters the Red River "B" at 8660.66' TVD. The top confining zone is 40 ft of the Red River "A" at 8,608' TVD and the bottom confining zone is Red River "C" at 8,718' TVD from the Thomas B 1R.

(4) The well type, construction, spud date, total depth, formation tops, record of completion or recompletion, and plugging for all oil, gas, and injection wells within the area of review, **and any additional pertinent information which the secretary determines is necessary to make an informed judgment on the issuance of a permit**, including drill stem tests and well logs for all oil and gas wells identified in the area of review;

- 1) See Attached for Map
- 2) The Brown E-29H is operated by Luff Exploration
- 3) The NBRRU J-19H is operated by Luff Exploration
- 4) CBRRU 14-31NH
- 5) CBRRU 34-31NH
- 6) Clarkson Federal 14-28
- 7) Quinn 44-36H
- 8) Thomas B 1R
- 9) Thune A-1
- 10) Thune B 1-30

(5) Information on abandoned and active water wells, as follows:

(a) Abandoned water wells: None

(i) The legal location;

(ii) Well name; and

(iii) Method of abandonment, if available;

(b) Active water wells: There is one active water well within a ½ mile radius of CBRRU 24-31NH. Tim Brown is the owner of the water well.

(i) The legal location; 45.827309, -103.675718. Located in the middle of T22N R4E S31

(ii) Well name: NA

(iii) NA

(iv) The construction program, including casing size and type, if available; See Attached. Casing Size and Type: 2 lb/ft 5" plastic pipe to 240'.

The well is owned by Tim Brown. The well was drilled and completed September 2003 to a depth of 240'.

(6) A description of the injection well's casing and the proposed casing program, and the proposed method for testing the casing for mechanical integrity before use as an injection well.

See attached.

1) Proposed wellbore diagram

The current production equipment will be removed and a Graco Arrowset packer installed with coated tubing. Packer to be set at approx. 8,977 ft. The casing will be MIT tested as required by the State of South Dakota, which is a 15 minute test at 1000 psi with an allowable 10% fall off.

(7) The geologic name and the depth to and interval of all freshwater resources which may be affected by injection;

Name: Fox Hills Depth: 800'

(8) The names and addresses of the operators of the project;

Name: Continental Resources
Address: PO Box 268870, Oklahoma City, OK, 73126

(9) Schematic drawings of the surface and subsurface construction details of the well with detailed drawings of the gauge connections;

See Attached

(10) The source and nature of the substance or substances to be injected, its viscosity, its compatibility with the receiving formation, including stability indices, and the estimated average and maximum daily amounts to be injected. If the nature of the injected fluid is produced water, a water quality analysis must be submitted and must include information on total dissolved solids content, chlorides, sodium, sulfates, nitrates, and hydrocarbons;

See attach water analysis from Jacam Laboratories. The water for injection will all be from the Red River Formation from the Central Buffalo Red River Unit wells, Buffalo Red River Unit wells, and Table Mountain #1-7F well. The attached water analysis data sheets are for CBRRU wells, BRRU wells, and the Table Mountain well. The analysis also includes various combinations of water from the above sources to test for compatibility and scaling tendencies. Jacam states that there is a potential to precipitate iron carbonate and iron sulfide, although this issue can be eliminated by treating with 50 ppm WWT 1900 chemical.

(11) The average and maximum estimated injection pressure and volumes;

Average: 800 BWPD & 1500 psi.
Maximum: 3,000 BWPD & 1700 psi.

(12) A narrative description of any proposed production stimulation program, including a feasibility study, process description, and an explanation of how the data were determined, such as working calculations;

Feasibility Study: The feasibility of enhancing oil recovery through water injection has been demonstrated by the increase in production in the Central Buffalo Red River Units.

Process description: Water will be injected at pressure into the Red River "B" porosity zone. The water will displace the hydrocarbons from the pore spaces, sweeping the hydrocarbons towards the producing wells.

How data was Determined: Increase in oil production since the water flood project started.

(13) An analysis of any corrective action on all wells identified on the plat required by subdivision (1) of this section and the basis for the conclusion;

Corrective Action:

There are no wells within the area of review that are improperly constructed so no corrective action is need.

Basis for the Conclusion:

There are no wells within the area of review are properly constructed so no corrective action is need.

(14) The injection zone characteristics, including porosity, compressibility, and intrinsic permeability. This information has been collected over the numerous years of drilling and completion of wells within the unit using well logs.

Porosity: 20%

Compressibility: $0.7 * 10^{-6}$ psi

Intrinsic Permeability: 10 mD

(15) The expected project life

Years: 25

(16) The surface owner's name, address, and telephone number.

Name: Tim and Tracey Brown

Address: 10723 Table Mountain Rd., Buffalo, SD 57720

Telephone number: (605) 375-3349

As indicated in Section 4, the Secretary reserves the right to request additional pertinent information needed to make a recommendation on the approvability of the application. The secretary shall deny any permit application which is incomplete.

In addition, the applicant will need to submit a notarized Certification of Applicant (Form 13), that can be obtained at <http://denr.sd.gov/documents/form13.pdf>. or by contacting the South Dakota Department of Environment and Natural Resources

All permits to inject are issued pursuant to the provisions of chapter 74:10:11.01.

Name of person legally responsible for Class II operation (owner/operator).

Continental Resources INC

Address: PO Box 268870, Oklahoma City, OK, 73126

Telephone: (405) 234-9000

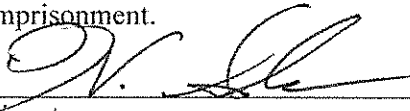
Local representative or contact person if different from above:

Name: Gordon Carlson

Address: 11583 S. Cave Hills Road, Buffalo, SD, 57720

Telephone: (605) 375-3731

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine or imprisonment.


Signature

6/24/2016
Date

Nik Gardner
Printed Name of Person Signing

Associate Engineer
Title

Subscribed and sworn before me this _____ day of _____, 20____.

Notary Public

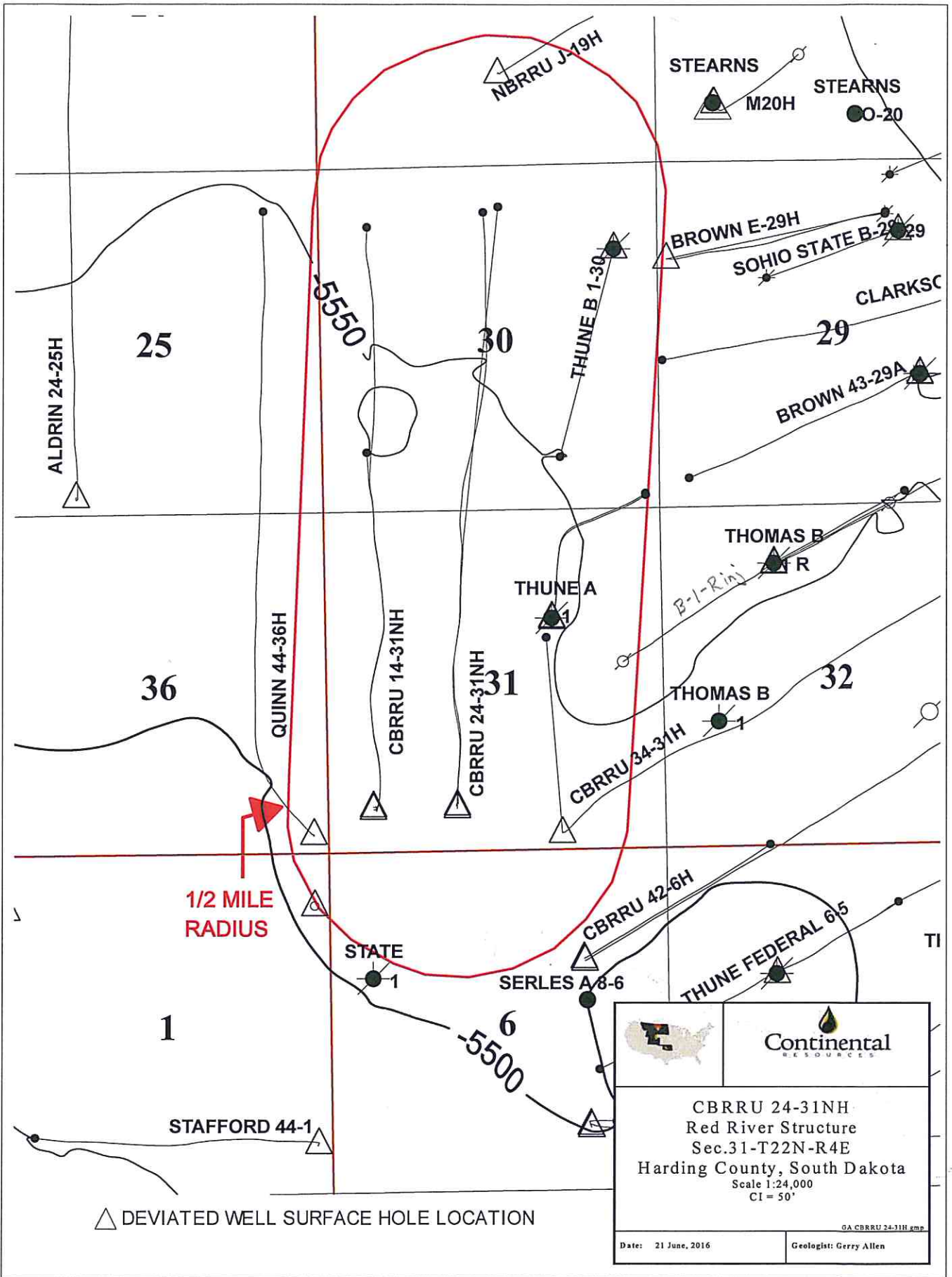
My commission expires: _____
(SEAL)

(1) A one-half mile fixed radius area of review plat which shows the location of the injection well or wells, existing or proposed; the location of all oil and gas wells; the location of all water wells active and abandoned; the location of all other wells, including plugged and abandoned wells; abandoned locations; dry holes; current drilling locations; the names of operators; the surface and mineral owners; and each offset operator;

See attached map.

NBRRU J-19H is operated by Luff Exploration

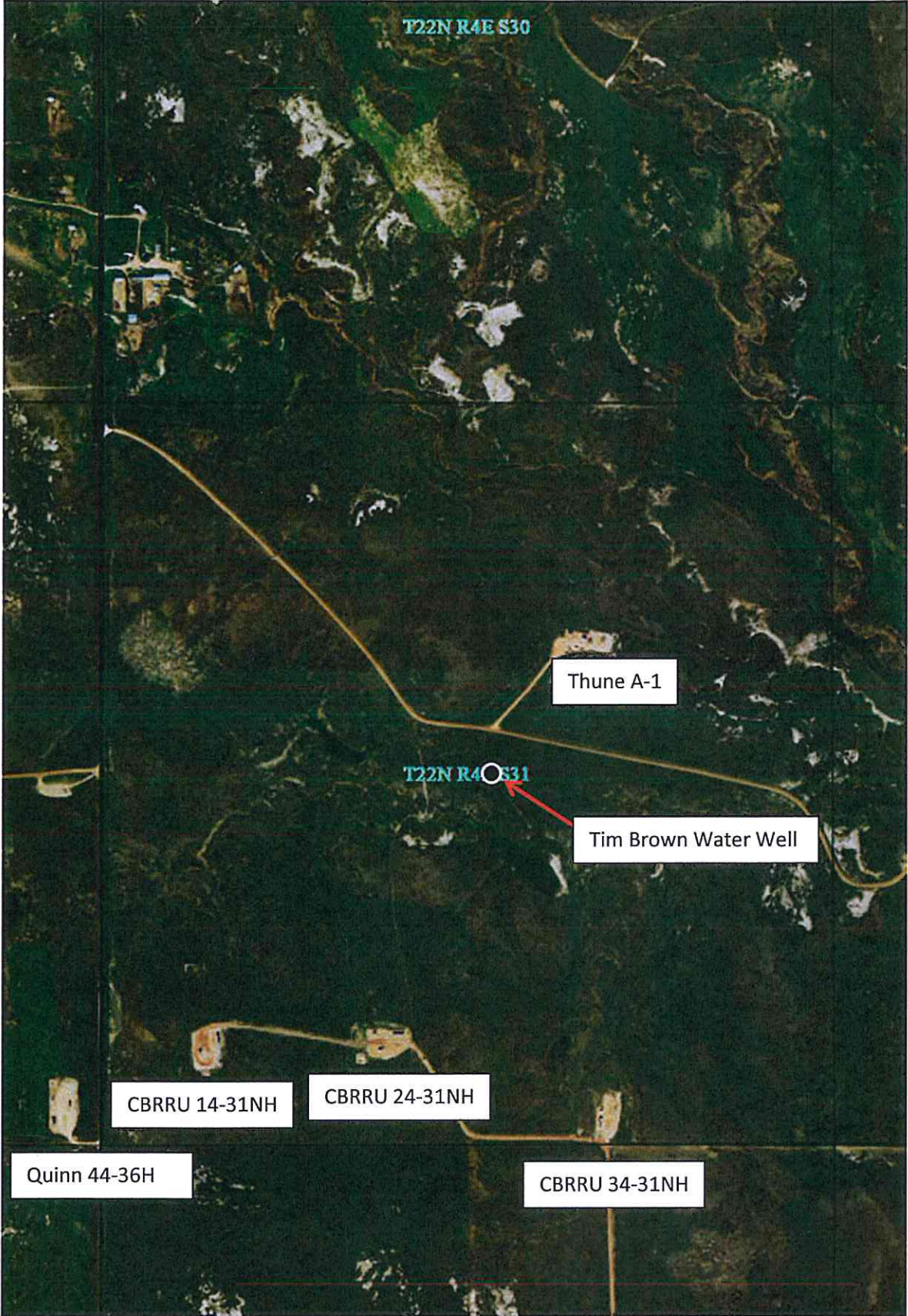
Brown E-29H is operated by Luff Exploration



△ DEVIATED WELL SURFACE HOLE LOCATION

<p>CBRRU 24-31NH Red River Structure Sec.31-T22N-R4E Harding County, South Dakota Scale 1:24,000 CI = 50'</p>	
<p>Date: 21 June, 2016</p>	<p>Geologist: Gerry Allen</p>

GA CBRRU 24-31NH.gmp



T22N R4E S30

Thune A-1

T22N R4 S31

Tim Brown Water Well

CBRRU 14-31NH

CBRRU 24-31NH

Quinn 44-36H

CBRRU 34-31NH

(6) A description of the injection well's casing and the proposed casing program, and the proposed method for testing the casing for mechanical integrity before use as an injection well.

See attached.

1) Proposed wellbore diagram

The current production equipment will be removed and a Graco Arrowset packer installed with coated tubing. Packer to be set at approx. 8,977 ft. The casing will be MIT tested as required by the State of South Dakota, which is a 15 minute test at 1000 psi with an allowable 10% fall off.

Drilled & Completed: November 2011

CBRRU 24-31NH
Section 31, 22N, 4E 660' FSL, 2000' FWL
GL: 3,078' KB: 3,095'
Harding Co., South Dakota

Casing Detail:

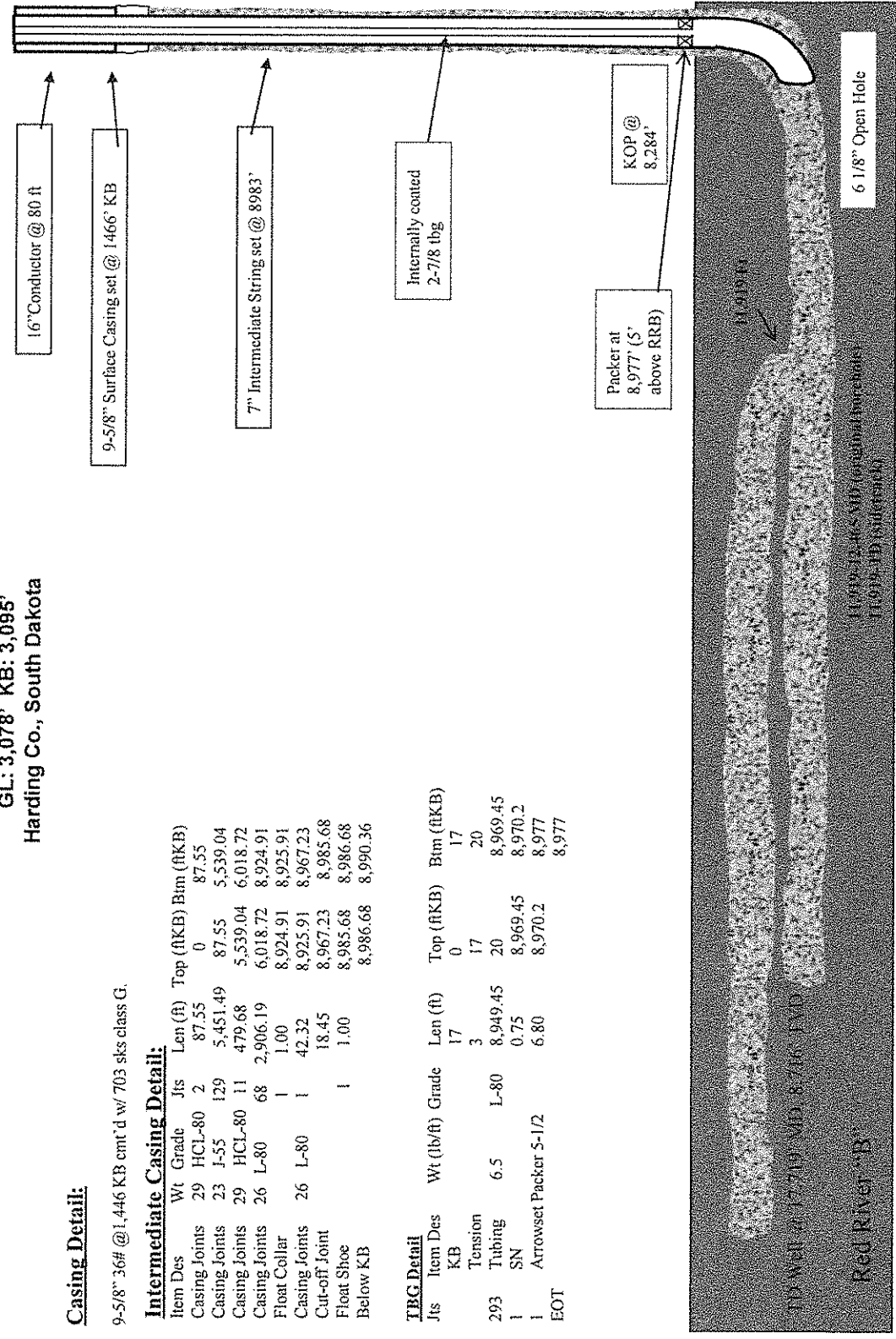
9-5/8" 36# @ 1,446 KB cmt'd w/ 703 sks class G.

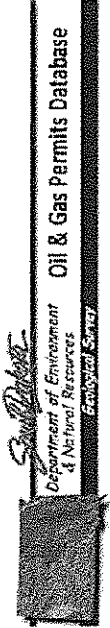
Intermediate Casing Detail:

Item Des	Wt Grade	Jts	Len (ft)	Top (ftKB)	Btm (ftKB)
Casing Joints	29 HCL-80	2	87.55	0	87.55
Casing Joints	23 J-55	129	5,451.49	87.55	5,539.04
Casing Joints	29 HCL-80	11	479.68	5,539.04	6,018.72
Casing Joints	26 L-80	68	2,906.19	6,018.72	8,924.91
Float Collar		1	1.00	8,924.91	8,925.91
Casing Joints	26 L-80	1	42.32	8,925.91	8,967.23
Cut-off Joint			18.45	8,967.23	8,985.68
Floater Shoe		1	1.00	8,985.68	8,986.68
Below KB				8,986.68	8,990.36

TBG Detail

Jts	Item Des	Wt (lb/ft)	Grade	Len (ft)	Top (ftKB)	Btm (ftKB)
	KB			17	0	17
	Tension			3	17	20
293	Tubing	6.5	L-80	8,949.45	20	8,969.45
1	SN			0.75	8,969.45	8,970.2
1	Arrowset Packer S-1/2			6.80	8,970.2	8,977
EOT					8,977	





Oil & Gas Permits Database

Oil and Gas Search for AP Number like 40 063 40712

Default Database
Page 1 of 1 Next

Export Well BMD Excel
Export Formation Top to Excel

New Search
Page 1 of 1

Record 1 of 1

API No: 40 383 2072
 Well Name: CO2RU 24-31NF
 Permit ID: 1976
 Operator Name: Contermina Resources, Inc.
 Permit Date: 16-28-2013
 Spud Date: 10-10-2013
 Plug Date:
 Latitude (DD): 45-32197
 Well Field: Buffalo

Well Information

County: Hardy
 Location: SESW Sec 31 Twp 02N Rng 04E
 Total Depth: 0
 Bottom Hole: Red River Formation
 KB Elevation: 3034
 Ground Elevation: 3075
 Admin Status: Producing
 Longitude (DD): -103 67875
 Well Type: 01

Print File

View Geophysical Logs

No Core Plots Available

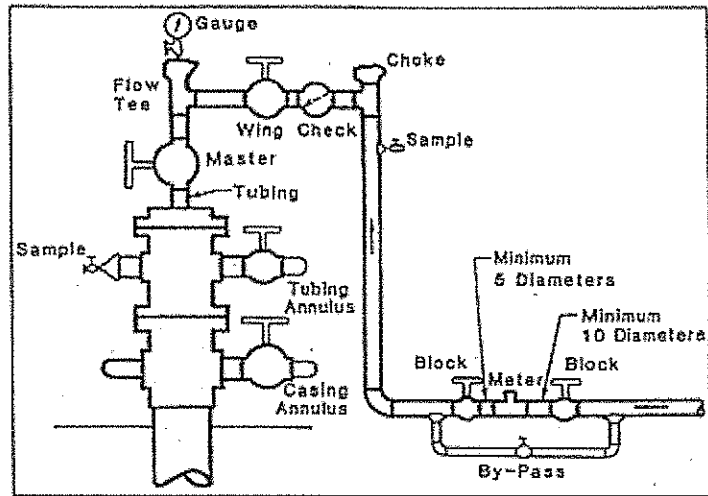
[No Injection Date]

View Geophysical Log Log

Formation	Depth (ft.)	Geological Age	Elevation
Greenhorn Limestone	3444	Cretaceous	-365
Newcastle Sandstone	4471	Cretaceous	-1353
Minnekahta Limestone	5936	Permian	-2918
Charles Formation	6704	Mississippian	-3676
Lodgepole Limestone	7481	Mississippian	-4403
Interlake Evaporite	8155	Silurian	-5087
Ganton, Story Mountain Formation	8510	Ordovician	-5432
Story Mountain Formation	8543	Ordovician	-5465
Red River Formation	8616	Ordovician	-5538
Unit A, Red River Formation	8628	Ordovician	-5550
Unit B, Red River Formation	8983	Ordovician	-5905

Page 1 of 1 (rows)

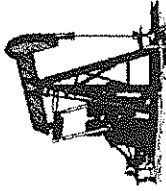
Page 1 of 1 Next



Details of water injection wellhead.

(4) The well type, construction, spud date, total depth, formation tops, record of completion or recompletion, and plugging for all oil, gas, and injection wells within the area of review, **and any additional pertinent information which the secretary determines is necessary to make an informed judgment on the issuance of a permit**, including drill stem tests and well logs for all oil and gas wells identified in the area of review;

- 1) See Attached for Map
- 2) The Brown E-29H is operated by Luff Exploration
- 3) The NBRRU J-19H is operated by Luff Exploration
- 4) CBRRU 14-31NH
- 5) CBRRU 34-31NH
- 6) Clarkson Federal 14-28
- 7) Quinn 44-36H
- 8) Thomas B 1R
- 9) Thune A-1
- 10) Thune B 1-30



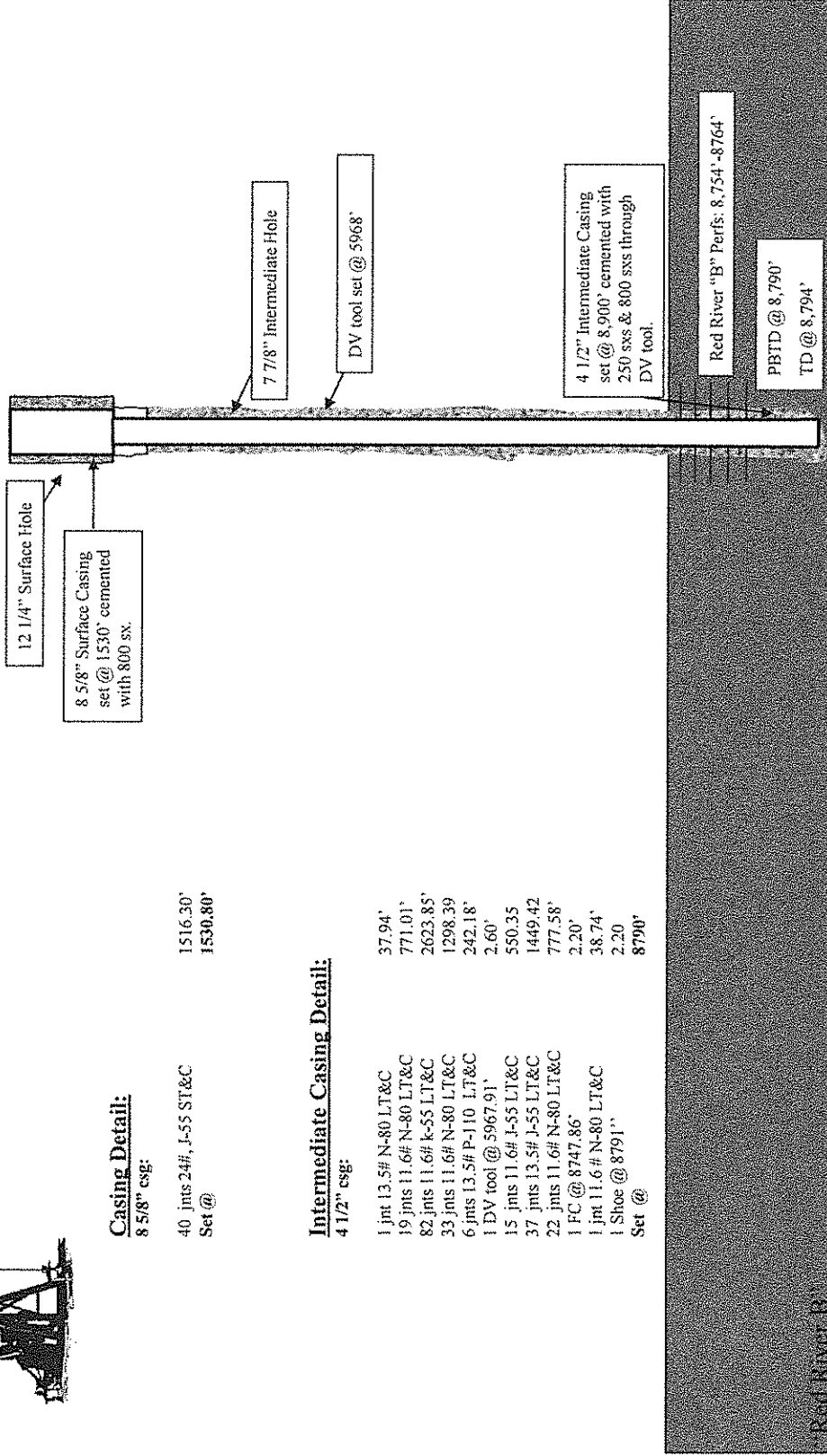
Clarkson Federal 14-28

Section 28 T022N R04E
API # 40-063-20379

Harding County, Buffalo, South Dakota

Spud: 7-9-83

Completion: 8-16-83



Casing Detail:
8 5/8" csg:

40 jnts 24#, J-55 ST&C 1516.30'
Set @ 1530.80'

Intermediate Casing Detail:
4 1/2" csg:

1 jnt 13.5# N-80 LT&C	37.94'
19 jnts 11.6# N-80 LT&C	771.01'
82 jnts 11.6# K-55 LT&C	2623.85'
33 jnts 11.6# N-80 LT&C	1298.39'
6 jnts 13.5# P-110 LT&C	242.18'
1 DV tool @ 5967.91'	2.60'
15 jnts 11.6# J-55 LT&C	550.35'
37 jnts 13.5# J-55 LT&C	1449.42'
22 jnts 11.6# N-80 LT&C	777.58'
1 FC @ 8747.86'	2.20'
1 jnt 11.6# N-80 LT&C	38.74'
1 Shoe @ 8791'	2.20'
Set @	8790'

Red River B

Oil and Gas Search for API Number: **40 053 23379**

[Download Database](#)
 Page: **1** of **1**

[Excel View Data](#)
[Excel Formations Tools & Excel](#)

[New Search](#)
 Page: **1** of **1**

Record 1 of 1

API No:	40 053 23379	County:	Jefferson
Well Name:	14-28 Charles-Federa	Location:	SYMSW Sec 28 Twp 02N R03 E04
Permit ID:	1277	Total Depth:	8513
Operator Name:	Environmental Resources, Inc.	Bottom Hole:	Red River Formation
Permit Date:	05-20-1993	KB Elevation:	3145
Spud Date:	07-08-1993	Ground Elevation:	3130
Plug Date:		Admin Status:	Shut In
Latitude (DD):	45.837816	Longitude (DD):	-90.342723
Well Field:	Etifab	Well Type:	Oil

[Permit Data](#) [Producer Data](#) [View Geophysical Logs](#) [No Core Pictures Available](#) [No Injection Data](#)
[See Full Geophysical Log Page](#)

Formation	Depth (ft.)	Geological Age	Elevation
Charles Formation	6616	Mississippian	-3506
Lodgepole Limestone	7464	Mississippian	-4334
Three Forks Shale	7700	Devonian	-4570
Duperow Formation	7960	Devonian	-4830
Intalaha Dolomite	8160	Silurian	-5030
Story Mountain Formation	8395	Ordovician	-5265
Red River Formation	8557	Ordovician	-5427

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

FARM OR LEASE NAME

Clarkson-Federal

WELL NO.

14-28

FIELD AND POOL OR TREATMENT

Buffalo Field

TYPE OF COMPLETION

Oil Well Gas Well _____

New Well Work-Over Deepen Plug Back Same Zone Diff Zone

OPERATOR
Koch Exploration Company

NO. ACRES IN LEASE

320

ADDRESS
P O Box 2256 Wichita, KS 67201

N M SEC. TWP. RGE.

LOCATION (In feet from nearest lines of section or legal subdivision where possible)*

Surface 1200' FSL & 660' FWL

SWSW Sec. 22-22N-4E

Top prod. interval

COUNTY

At total depth

Harding

PERMIT NO. 1277 DATE ISSUED 6-20-83 PREVIOUS PERMIT NO. --- DATE ISSUED ---

DATE SPUNDED 7-8-83 DATE T.D. REACHED 7-25-83 DATE COMPL. (Ready to Prod.) 8-11-83 ELEVATIONS (OP. BEH. RT. OR, etc.)* GL 3130', KB 3143' ELEV. CASINGHEAD PLGE ---

TOTAL DEPTH (MD & TVD) TD 8794' PLUG BACK T.D. (MD & TVD) PBD 8790' IF MULTIPLE COMPL. HOW MANY* --- INTERVALS DRILLED BY --- ROTARY TOOLS XXX CABLE TOOLS ---

PRODUCING INTERVAL(S), THIS COMPLETION, TOP, BOTTOM, NAME (MD & TVD)*

8754-8764' Red River "B" zone

DATE DIRECTIONAL SURVEY SUBMITTED

TYPE ELECTRIC AND OTHER LOGS RUN (Circle those filed)

GR/N thru casing

WAS WELL CORED

No

CASING RECORD (Report all strings set in well)

CASING SIZE	DEPTH SET (MD)	HOLE SIZE	WEIGHT LBS./FT.	PURPOSE	SACKS CEMENT	AMOUNT PULLED
8-5/8"	1531'	12-1/4"	24	Srfc Csg	800	None
4-1/2"	8791'	7-7/8"	11.6 & 13.5	Prod Csg	1150	None
		DV @ 5968'	w/800 5x			

LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
None					2-3/8	8737	None

TUBING RECORD

DEPTH INTERVAL (MD)	HOLES PER FT.	SIZE AND TYPE	PURPOSE	ACID, SHOT, FRAC. CEMENT SQUEEZE, ETC.	
				AMOUNT AND KIND OF MATERIAL USED	DEPTH INTERVAL (MD)
8754-8764'	2 HPF	0.38" Jet	Prod	2000 gal 15% Retarded Acid	
				3000 gal 15% Retarded Acid	

PRODUCTION

DATE FIRST PRODUCTION 8-4-83 PRODUCING METHOD (Flowing, gas lift, pumping, size & type of pump) Pumping, 1-1/4" Rod Pump WELL STATUS (Prod. or shut-in) Producing

DATE OF TEST 8-19-83 HOURS TESTED 24 CHOKED SIZE --- PRODUCTION FOR TEST OIL, Bbls. 25 GAS, Scf. TSTM WATER, Bbls. & % 79 bbl 76% OIL GRAVITY-API (Corr.) 31.0

FLOW, TUBING PRESSURE --- CASING PRESSURE --- CALCULATED 24-HOUR RATE --- OIL, Bbls. 25 GAS, Scf. TSTM WATER, Bbls. & % 79 bbl 76% GAS-OIL RATIO ---

DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

Used for fuel

TEST WITNESSED BY

Jerry Comes

LIST OF ATTACHMENTS

I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED D. L. Schmidt TITLE VP Prod/Oper DATE Aug. 25, 1983

Approved D. L. Schmidt Date AUG 29 1983

RECEIVED

OIL AND GAS BOARD OF THE STATE OF SOUTH DAKOTA ORIGINAL SIGNED BY FRED V. STEECE Secretary

SEP 8 1983

CBRRU 14-31H

Section 31, 22N, 4E 660' FSL, 700' FWL

GL: 3,099 KB: 3,116

Harding Co., South Dakota

Drilled & Completed: June 2013

Casing Detail:

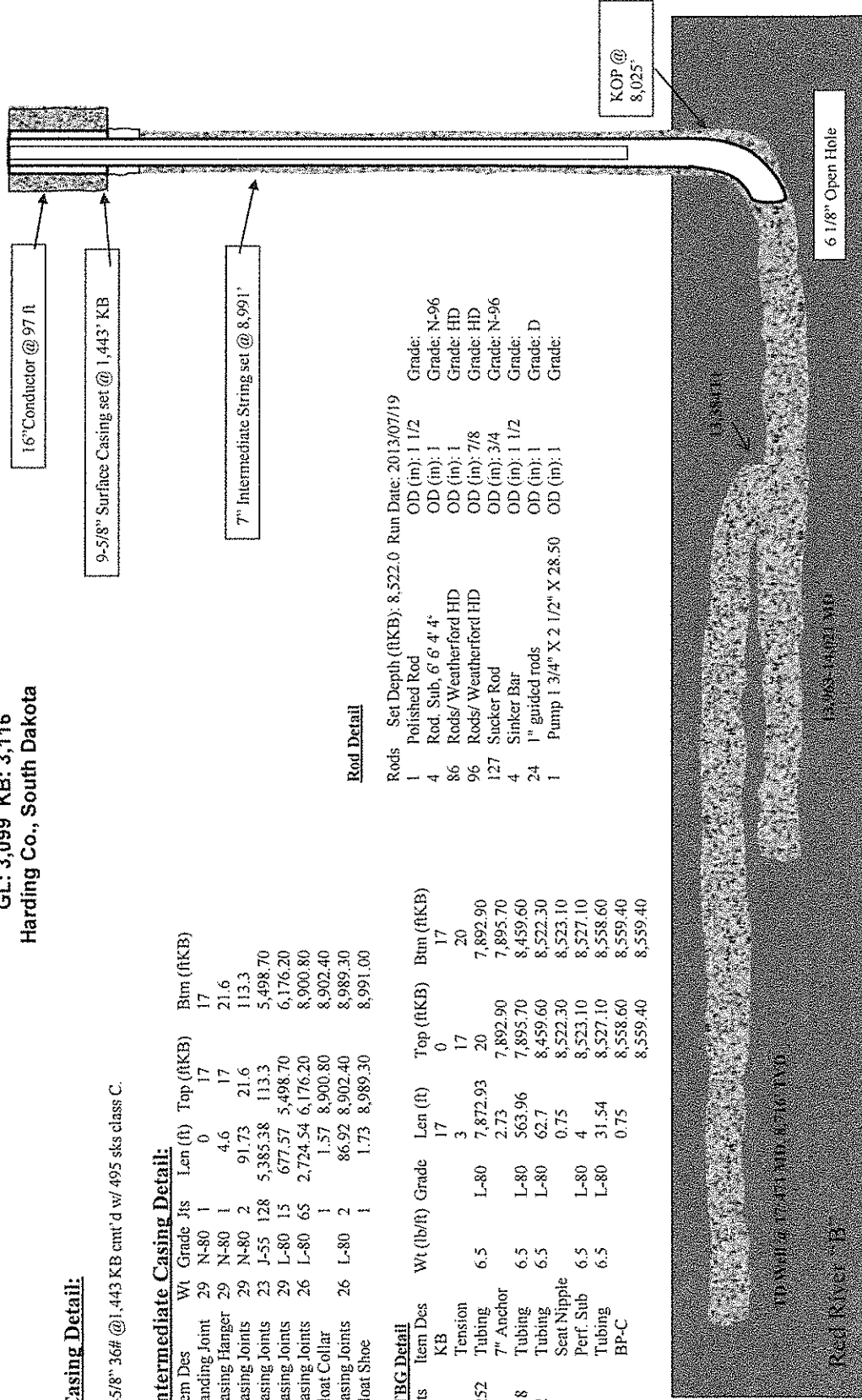
9-5/8" 36# @ 1,443 KB cmt' d w/ 495 sks class C.

Intermediate Casing Detail:

Item Des	Wt	Grade	Jts	Len (ft)	Top (ftKB)	Btm (ftKB)
Landing Joint	29	N-80	1	0	17	17
Casing Hanger	29	N-80	1	4.6	17	21.6
Casing Joints	23	N-80	2	91.73	21.6	113.3
Casing Joints	23	J-55	128	5,385.38	113.3	5,498.70
Casing Joints	29	L-80	15	677.57	5,498.70	6,176.20
Casing Joints	26	L-80	65	2,724.54	6,176.20	8,900.80
Float Collar			1	1.57	8,900.80	8,902.40
Casing Joints	26	L-80	2	86.92	8,902.40	8,989.30
Float Shoe			1	1.73	8,989.30	8,991.00

Rod Detail

Item	Set Depth (ftKB)	Run Date	Grade
1 Polished Rod	8,522.0	2013/07/19	OD (in): 1 1/2
4 Rod. Sub, 6' 4"			OD (in): 1
86 Rods/ Weatherford HD			OD (in): 1
96 Rods/ Weatherford HD			OD (in): 7/8
127 Sucker Rod			OD (in): 3/4
4 Sinker Bar			OD (in): 1 1/2
24 1" guided rods			OD (in): 1
1 Pump 1 3/4" X 2 1/2" X 28.50			OD (in): 1



Red River

6 1/8" Open Hole

KOP @
8,025'



Oil & Gas Permits Database

Oil and Gas Search for API Number (In= 40160 2074)

[New Search](#)

Page 1 of 1

[Export Web Info to Excel](#)

[Export Formation Data to Excel](#)

[Download Database](#)

Page **1** of **1** [Next](#)

Record 1 of 1

API No: 40160 2074
Well Name: CERRIL 14-31R4
Permit ID: 2024
Operator Name: Coniferia Resources Inc.
Permit Date: 01-25-2013
Spud Date: 02-05-2013
Plug Date: 45-02-1925
Latitude (DD): Buffalo
Well Field:

County:
Location:
Total Depth:
Bottom Hole:
KB Elevation:
Ground Elevation:
Admin Status:
Longitude (DD):
Well Type:

Harding
 SWSKY Sec 31 Twp 022N Rng 3E
 Red River Formation
 3117
 3599
 Producting
 -135.603976
 Oil

[Permit Info](#)

[Production Data](#)

[View Geophysical Logs](#)

[\[No Injection Data\]](#)

[Key for Geophysical Log Type](#)

Formation	Depth (ft.)	Geological Age	Elevation
Greenhorn Limestone	3460	Cretaceous	-381
Dakota Sandstone	4468	Cretaceous	-1386
Pine Salt Speerfish Formation	5760	Permian	-2671
Minnesota Limestone	6518	Permian	-2919
Charles Formation	6722	Mississippian	-3623
Lodgepole Limestone	7456	Mississippian	-4337
Red River Formation	8327	Ordovician	-5526

Page 1 of 1 (Print View)

Page **1** of **1** [Next](#)



DEPARTMENT of ENVIRONMENT and NATURAL RESOURCES
 Minerals & Mining Program
 2050 West Main, Suite #1, Rapid City, SD 57702-2493
 Telephone: 605-773-4201, FAX: 605-384-5317

RECORDED

JUL 26 2013

DEPT OF ENVIRONMENT & NATURAL RESOURCES - RAPID CITY

WELL COMPLETION OR RECOMPLETION REPORT

Type of Completion:
 Oil Well Gas Well Injection Workover Deepen Plug Back Other: _____

Name and Address of Operator: Continental Resources, Inc., P.O. Box 268870, Oklahoma City, OK 73126 Telephone: 405-234-9000

Name and Address of Drilling Contractor and Rig No: Cyclone Drilling, Inc., #1, P.O. Box 908, Gillette, WY 82717-0908

Surface Location of well: Qtr-Qtr, Sec, Twp, Rge, County, feet from nearest lines of section, and latitude and longitude (if available)
 SWSW Sec 31 (Lot 4), T22N R5E, Harding Co., 660' FSL & 700' FWL, Lat: 45 49 19.09; Long: -103 41 01.96

If Directional, top of pay and bottom hole location from nearest lines of section:
 Top of Pay: 9053' MD; 1262' FSL & 806' FWL Sec 31; BHL: NWNW Sec 30 T22N R1E, 896' FNL & 723' FWL

Well Name and No.	Field and Pool, or Wildcat	Permit No.	API No.	Date Issued
CBRRU 14-31NH	Central Buffalo; Red River "B"	2024	40-063-20741	1/29/2013

Spud Date	TD Date	Compl Date	Elevation	Total Depth (MD & TVD)	Plug Back TD (MD & TVD)
2/8/2013	3/4/2013	6/13/2013	3099	MD: 17,471' TVD: 8716'	

Producing Interval(s), this Completion, Top, Bottom, Name (MD & TVD)
 Producing Interval: Red River "B" from 8991' - 17,471'

No. of DST's run (see page 2) Was well cored?
 No Yes
 List Intervals:

Type Electric and Other Logs Run: CBL/GR Date Directional Survey Submitted:

CASING RECORD (Report all strings set in well)

Hole Size	Casing Size	Weight (lb/ft)	Depth Set	Amount Pulled	Sacks and Type of Cement	Top of Cement
20"	16"	75#	97'			Surface
13 1/2"	9 5/8"	36#	1443		495 sks Class C, Type III	Surface
8 3/4"	7"	23, 26, 29#	8991'		855 sks Class C, Therm 35	

TUBING RECORD

Size	Weight (lb/ft)	Depth Set	Packer Type & Depth	Size	Depth Interval	Sacks and Type of Cement
2 7/8"	6.5#	8576'				

LINER RECORD

PERFORATION RECORD

Interval/Depth	Holes Per Ft.	Formation Isolated	Amount and Type of Cement used (indicate if squeeze cemented). Amount and Type of Acid and/or Sand used. Use additional page(s) if needed.
OWB 8991' - 14,021'	Open Hole		
ST1 13,375' - 17,471'	Open Hole		

Continued on Next Page ->

PRODUCTION

Date First Production 6/14/2013		Producing Method (Flowing, gas lift, pumping - size and type of pump) Rod Pump 1 1/2" X 2 1/2" X 28 1/2'				Well Status (producing or shut-in) Producing	
Date of Test 6/15/2013	Hours Tested 24	Choke Size NA	Production For Test →	Oil (Bbls) 32	Gas (Mcf) 0	Water (Bbls & %) 338	Oil Gravity - API (Corr.) 28.7
Flowing Tbg Pressure 0		Casing Pressure 0	Calculate 24 Hour Rate →	Oil (Bbls) 32	Gas (Mcf) 0	Water (Bbls & %) 338	Gas-Oil Ratio 0
Disposition of Oil (Purchaser and Transporter), and Gas (sold, used for fuel, vented, etc.) Plains Pipeline - Transporter; No measurable gas						Test Witnessed By Gordy Carlson	
List of Attachments/Comments CBL/Geological Report/Directional Surveys							

GEOLOGIC MARKERS

FORMATION NAME AND BRIEF DESCRIPTION	MEASURED DEPTH	TRUE VERTICAL DEPTH
Greenhorn		3460
Dakota Sand		4488
Pine Salt		5700
Minnekahta		6018
Kibbey Lime		6624
Charles		6722
Green Point Anhydrite		6865
Lodgepole		7496
Red River	8783	8627

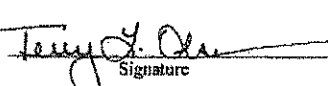
Use additional page(s) if needed.

DRILL STEM TEST DATA

Drill Stem Test Results Attached
If not attached, list Depth Interval Tested, Cushion Used, Time Tool Open, Flowing and Shut-in Pressures, and Recoveries.

Use additional page(s) if needed.

I hereby certify that the information herein provided is true, complete, and correct as determined from all available records.


Terry L. Olson
Reg. Compliance Specialist
7/22/2013

Signature
Name (Print)
Title
Date

Drilled & Completed: October 2005

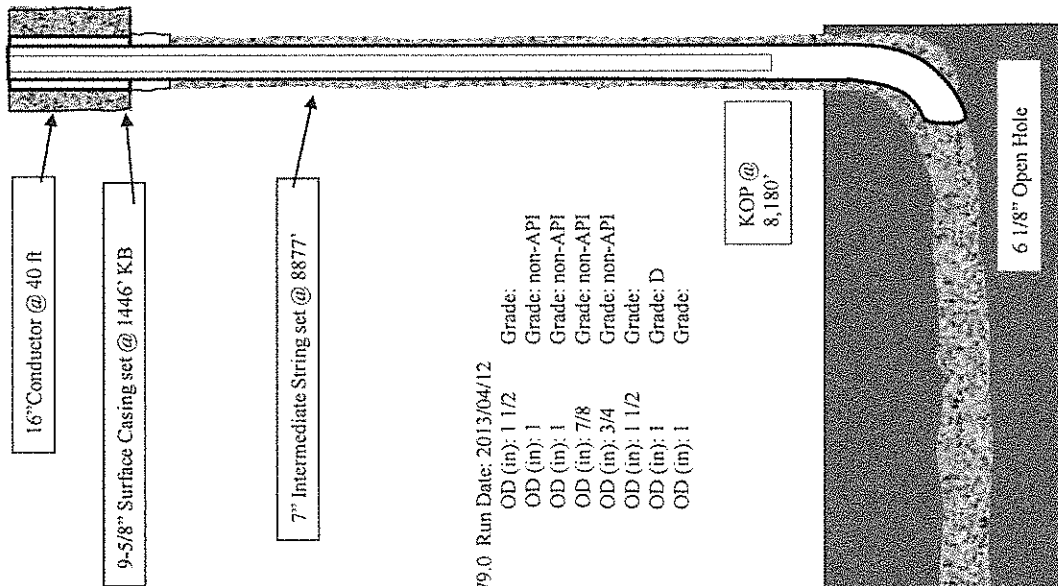
CBRRU 34-31H
 Section 31, 22N, 4E 210' FSL, 1600' FEL
 GL: 3,061' KB: 3,078'
 Harding Co., South Dakota

Casing Detail:

9-5/8" 36# @ 1.446 KB cmt'd w/ 660 sks class G.

Intermediate Casing Detail:

Item Des	Wt	Grade	Its	Len (ft)	Top (ftKB)	Btm (ftKB)
Casing Joints	29	P-110	1	43.89	0	43.89
Casing Joints	23	J-55	129	5,456.07	43.89	5,499.96
Casing Joints	29	P-110	11	483.87	5,499.96	5,983.83
Casing Joints	23	L-80	26	1,100.38	5,983.83	7,084.21
Casing Joints	26	L-80	40	1,754.58	7,084.21	8,838.79
Float Collar			1	2.00	8,838.79	8,840.79
Casing Joints	26	L-80	1	43.68	8,840.79	8,884.47
Float Shoe			1	1.00	8,884.47	8,877.00



Rod Detail

Rods	Set Depth (ftKB)	Run Date:	Grade:
1	Polished Rod	2013/04/12	Grade: 1 1/2
4	Rod. Sub. 2' 4' 6' 8'		Grade: non-API
76	Rods/ Weatherford HD		Grade: non-API
103	Rods/ Weatherford HD		Grade: non-API
130	Sucker Rod		Grade: non-API
10	Sinker Bar		Grade: D
20	1" guided rods		Grade: D
1	Pump 2 1/2" X 2" X 30'		Grade: D

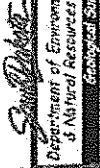
TBG Detail

Its	Item Des	Wt (lb/ft)	Grade	Len (ft)	Top (ftKB)	Btm (ftKB)
	KB			13	0	13
	Tension			3	13	16
264	Tubing	6.5	L-80	8,157.78	8,173.78	8,173.78
1	7" Anchor			2.73	8,173.78	8,176.51
13	Tubing	6.5	L-80	401.70	8,176.78	8,578.21
1	Seat Nipple			0.75	8,578.21	8,578.96
1	Perf. Sub	6.5	L-80	4	8,578.96	8,582.96
1	Tubing	9.3	L-80	34.25	8,582.96	8,617.21
1	BP-C			0.75	8,617.21	8,617.96

TD Wash @ 15,714' MID 8,063' FSL

Red River "B"

6 1/8" Open Hole



Oil & Gas Permits Database

Oil and Gas Search for: 45 Permits (file #0 000 20000)

Download Database
Page 1 of 1

Export Data to Excel
Export Formation Data to Excel

New Search
Page 1 of 1

Record 1 of 1

API No: 45-003-20000
Well Name: CRRU 34-3H
Permit ID: 1761
Operator Name: Continental Resources Inc.
Permit Date: 05-25-2006
Spud Date: 05-25-2006
Plug Date:
Latitude (DD): 45.940718
Well Field: Buffalo

Well Information

County: SWSE Sec 31, Twp 022N, Rng 04E
Location: 0
Total Depth: Red River Formation
Bottom Hole: 3375
KB Elevation: 3361
Ground Elevation: Producing
Admin Status: -103 672317
Longitude (DD):
Well Type: Oil

Permit File

Production Data

View Geophysical Logs

Key for Geophysical Log Lines

[No Injection Data]

Formation	Depth (ft.)	Geological Age	Elevation
Greenhorn Limestone	4572	Cretaceous	-1511
Piper Formation	5640	Triassic	-2579
Pine Salt, Spanish Formation	5824	Permian	-2783
Kibbey Formation	5888	Mississippian	-3627
Lodgepole Limestone	6040	Mississippian	-4679
Unit A, Red River Formation	5809	Ordovician	-5739
Unit B, Red River Formation	5869	Ordovician	-5608



RECEIVED
 AUG 3 2006

DEPT OF ENVIRONMENT & NATURAL RESOURCES

WELL COMPLETION OR RECOMPLETION REPORT

Type of Completion:
 Oil Well Gas Well Injection Workover Deepen Plug Back Other _____

Name and Address of Operator: Prima Exploration, Inc. 7555 E. Hampden Ave., Suite 505, Denver, CO 80231 Telephone: (303) 755-5681

Name and Address of Drilling Contractor and Rig No: Cyclone Drilling, Cyclone 23 P.O. Box 908, Gillette, WY 82717-3158

Surface Location of well: Qtr-Qtr, Sec, Twp, Rge, County, feet from nearest lines of section, and latitude and longitude (if available):
 210' FSL & 1600' FEL, SW SE, Sec 31-22N-4E

If Directional, top of pay and bottom hole location from nearest lines of section:
 BHL #1 1342' FNL & 719' FEL, SE NE, Sec 32-22N-4E #2 2005' FNL & 1793' FEL, SW NE, Sec 31-22N-4E

Well Name and No. CBRRU 34-31H		Field and Pool, or Wildcat Buffalo		Permit No. 1761	API No. 40-063-20600	Date Issued 8/23/2005
Spud Date 8/29/2005	TD Date 10/16/2005	Compl Date 10/16/2005	Elevation 3059	Total Depth (MD & TVD) 1) 15,714' MD, 8665' TVD 2) 12,220' MD, 8653' TVD	Plug Back TD (MD & TVD) TVD	
Producing Interval(s), this Completion, Top, Bottom, Name (MD & TVD) TOPI #1 8936' MD, 8640.5' TVD TOPI #2 9380' MD, 8645.4' TVD BOPI #1 15,714' MD, 8665.44' TVD BOPI #2 12,220' MD, 8653.9 TVD Red River "B"					No. of DST's Run (see page 2)	Was Well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes List Intervals:
Type Electric and Other Logs Run: GR					Date Directional Survey Submitted	

CASING RECORD (Report all strings set in well)

Hole Size	Casing Size	Weight (lb/ft)	Depth Set	Amount Pulled	Sacks and Type of Cement	Top of Cement
13 1/2"	9 5/8"	36#	1446'		660 sks	
8 3/4"	7"	26#	8877'		741 sks	

TUBING RECORD

LINER RECORD

Size	Weight (lb/ft)	Depth Set	Packer Type & Depth	Size	Depth Interval	Sacks and Type of Cement
2 7/8"		8714'	N/A			

PERFORATION RECORD

Interval/Depth	Holes Per Ft.	Formation Isolated	Amount and Type of Cement used (Indicate if squeeze cemented). Amount and Type of Acid and/or Sand used. Use additional page(s) if needed.
8936'MD-15,714'MD	OH	N/A	N/A
9380'MD-12,220'MD	OH	N/A	

Continued on Next Page →

PRODUCTION

Date First Production 1/18/06		Producing Method (Flowing, gas lift, pumping - size and type of pump) Pumping				Well Status (Producing or shut-in) Producing	
Date of Test 3/6/06	Hours Tested 24	Choke Size	Production For Test →	Oil (Bbls) 2	Gas (Mcf) 0	Water (Bbls & %) 310	Oil Gravity - API (Corr.) 33
Flowing Tbg Pressure N/A		Casing Pressure	Calculate 24 Hour Rate →	Oil (Bbls) 2	Gas (Mcf) 0	Water (Bbls & %) 310	Gas-Oil Ratio
Disposition of Oil (Purchaser and Transporter), and Gas (sold, used for fuel, vented, etc.) Nexen Marketing USA- Purchaser Shell Trading US Company- Transporter						Test Witnessed By Dave Arithson	
List of Attachments/Comments							

GEOLOGIC MARKERS

FORMATION NAME AND BRIEF DESCRIPTION	MEASURED DEPTH	TRUE VERTICAL DEPTH
Greenhorn	4572'	
Piper Lime	5640'	
Pine Salt	5824'	
Kibby	6688'	
Lodgepole	8040'	
Red River "A"	8800'	
Red River "B"	8869'	

Use additional page(s) if needed.

DRILL STEM TEST DATA

Drill Stem Test Results Attached

If not attached, list Depth Interval Tested, Cushion Used, Time Tool Open, Flowing and Shut-in Pressures, and Recoveries.

Use additional page(s) if needed.

I hereby certify that the information herein provided is true, complete, and correct as determined from all available records.

Becky Barnes Signature Becky Barnes Name (Print) Regulatory Comp Title 6/19/2006 Date

FOR OFFICE USE ONLY

Approved By: *Fred Wallace* Title: *O.G. Supervisor* Date: *AUG 29 2006*



RECEIVED

JUN 30 2006

DEPT OF ENVIRONMENT & NATURAL RESOURCES - RCRR

WELL COMPLETION OR RECOMPLETION REPORT

Type of Completion:
 Oil Well Gas Well Injection Workover Deepen Plug Back Other _____

Name and Address of Operator: Telephone
 Prima Exploration, Inc. 7555 E. Hampden Ave., Suite 505, Denver, CO 80231 (303) 755-5681

Name and Address of Drilling Contractor and Rig No:
 Cyclone Drilling, Cyclone 23 P.O. Box 908, Gillette, WY 82717-3158

Surface Location of well: Qtr-Qtr, Sec, Twp, Rge, County, feet from nearest lines of section, and latitude and longitude (if available):
 210' FSL & 1600' FEL, SW SE, Sec 31-22N-4E

If Directional, top of pay and bottom hole location from nearest lines of section:
 BHL #1 1342' FNL & 719' FEL, SE NE, Sec 32-22N-4E #2 2005' FNL & 1793' FEL, SW NE, Sec 31-22N-4E

Well Name and No. CBRRU 34-31H		Field and Pool, or Wildcat Buffalo		Permit No. 1761	API No. 40-063-20600	Date Issued 8/23/2005
Spud Date 8/29/2005	TD Date 10/16/2005	Compl Date 10/16/2005	Elevation 3059	Total Depth (MD & TVD) 1) 15,714' MD, 8665' TVD 2) 12,220' MD, 8653' TVD	Plug Back TD (MD & TVD) TVD	
Producing Interval(s), this Completion, Top, Bottom, Name (MD & TVD) TOPI #1 8936' MD, 8640.5' TVD TOPI #2 9380' MD, 8645.4' TVD BOPI #1 15,714' MD, 8665.44' TVD BOPI #2 12,220' MD, 8653.9' TVD Red River "B"					No. of DST's Run (see page 2)	Was Well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes List Intervals:
Type Electric and Other Logs Run: GR					Date Directional Survey Submitted	

CASING RECORD (Report all strings set in well)

Hole Size	Casing Size	Weight (lb/ft)	Depth Set	Amount Pulled	Sacks and Type of Cement	Top of Cement
13 1/2"	9 5/8"	36#	1446'		660 sks	
8 3/4"	7"	26#	8877'		741 sks	

TUBING RECORD

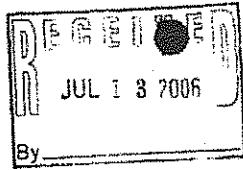
LINER RECORD

Size	Weight (lb/ft)	Depth Set	Packer Type & Depth	Size	Depth Interval	Sacks and Type of Cement
2 7/8"		8714'	N/A			

PERFORATION RECORD

Interval/Depth	Holes Per Ft.	Formation Isolated	Amount and Type of Cement used (indicate if squeeze cemented). Amount and Type of Acid and/or Sand used. Use additional page(s) if needed.
8936'MD-15,714'MD	OH	N/A	N/A
9380'MD-12,220'MD	OH	N/A	N/A

Continued on Next Page →



PRODUCTION

Date First Production 1/18/06		Producing Method (Flowing, gas lift, pumping - size and type of pump) Pumping				Well Status (Producing or shut-in) Producing	
Date of Test 3/6/06	Hours Tested 24	Choke Size	Production For Test →	Oil (Bbls) 2	Gas (Mcf) 0	Water (Bbls & %) 310	Oil Gravity - API (Corr.) 33
Flowing Tbg Pressure N/A		Casing Pressure	Calculate 24 Hour Rate →	Oil (Bbls) 2	Gas (Mcf) 0	Water (Bbls & %) 310	Gas-Oil Ratio
Disposition of Oil (Purchaser and Transporter), and Gas (sold, used for fuel, vented, etc.) Nexen Marketing USA- Purchaser Shell Trading US Company- Transporter						Test Witnessed By Dave Arithson	
List of Attachments/Comments							

GEOLOGIC MARKERS

FORMATION NAME AND BRIEF DESCRIPTION	MEASURED DEPTH	TRUE VERTICAL DEPTH
Greenhorn	4572'	
Piper Lime	5640'	
Pine Salt	5824'	
Kibby	6688'	
Lodgepole	8040'	
Red River "A"	8800'	
Red River "B"	8869'	

Use additional page(s) if needed.

DRILL STEM TEST DATA

Drill Stem Test Results Attached

If not attached, list Depth Interval Tested, Cushion Used, Time Tool Open, Flowing and Shut-in Pressures, and Recoveries.

Use additional page(s) if needed.

I hereby certify that the information herein provided is true, complete, and correct as determined from all available records.

Becky Barnes Becky Barnes Regulatory Comp 6/19/2006
 Signature Name (Print) Title Date

FOR OFFICE USE ONLY

Approved By Fred Wallace Title D. G. Supervisor Date: JUL 06 2006

Drilled & Completed: January-February 2012

Quinn 44-36H
 Section 36, 22N, R3E 250' FSL, 225' FEL
 GL: 3,102' KB: 3,122'
 Harding Co., South Dakota

Casing Detail:

9-5/8" 36# @ 1.472 KB cmt'd w/ 480 sks Class C, Type 3.

Intermediate Casing Detail:

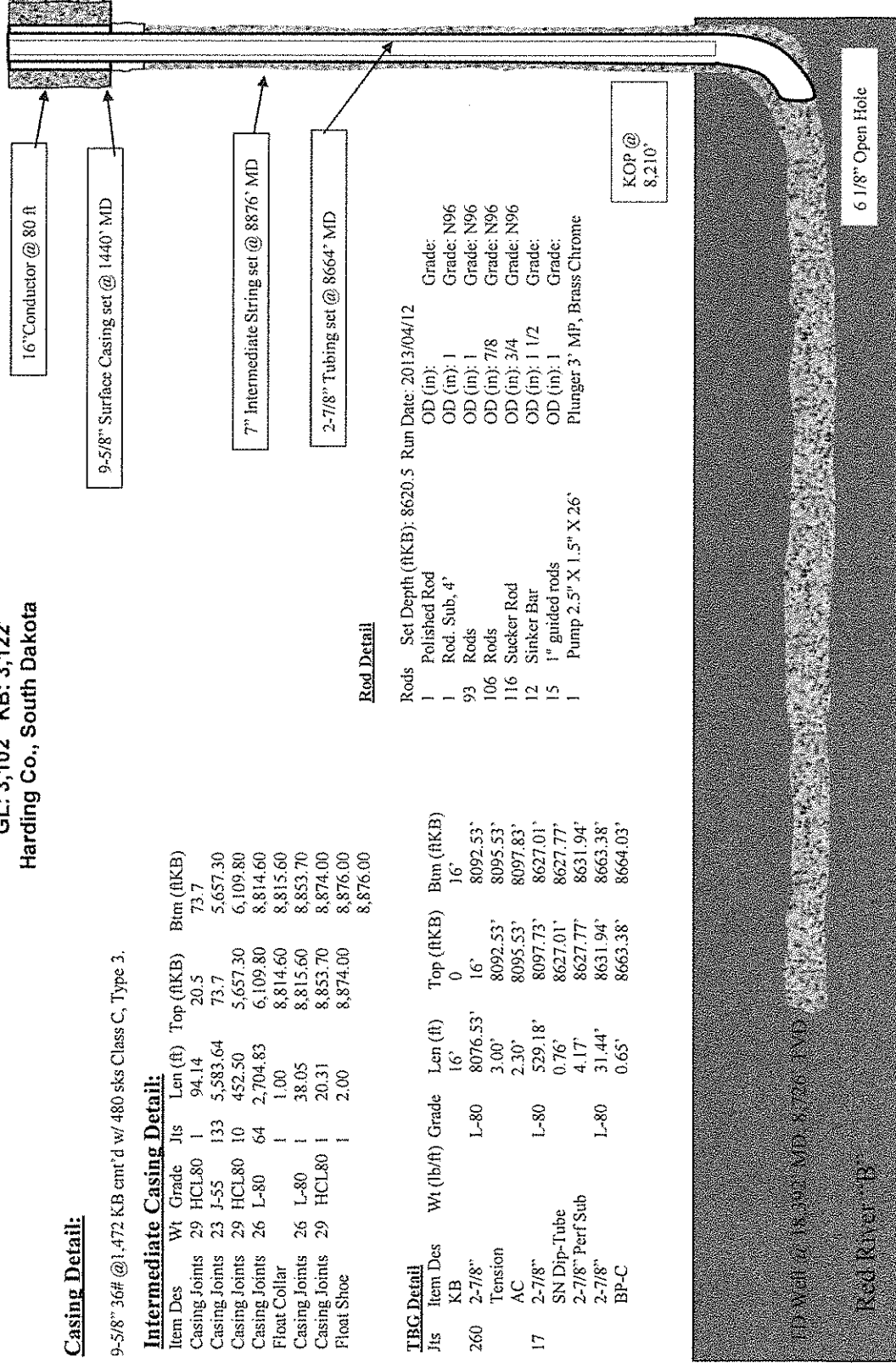
Item Des	Wt	Grade	Jts	Len (ft)	Top (ftKB)	Btm (ftKB)
Casing Joints	29	HCL80	1	94.14	20.5	73.7
Casing Joints	23	J-55	133	5,583.64	73.7	5,657.30
Casing Joints	29	HCL80	10	452.50	5,657.30	6,109.80
Casing Joints	26	L-80	64	2,704.83	6,109.80	8,814.60
Float Collar			1	1.00	8,814.60	8,815.60
Casing Joints	26	L-80	1	38.05	8,815.60	8,853.70
Casing Joints	29	HCL80	1	20.31	8,853.70	8,874.00
Float Shoe			1	2.00	8,874.00	8,876.00
						8,876.00

Rod Detail

Jts	Item Des	Wt (lb/ft)	Grade	Len (ft)	Top (ftKB)	Btm (ftKB)
260	2-7/8" KB			16'	0	16'
	Tension		L-80	8076.53'	16'	8092.53'
	AC			3.00'	8092.53'	8095.53'
17	2-7/8" SN Dip-Tube		L-80	529.18'	8097.73'	8627.01'
	2-7/8" Perf Sub			0.76'	8627.01'	8627.77'
	BP-C		L-80	31.44'	8631.94'	8663.38'
				0.65'	8663.38'	8664.03'

Rods Set Depth (ftKB): 8620.5 Run Date: 2012/04/12

Item	Grade	OD (in)
1	Polished Rod	Grade: N96
1	Rod. Sub, 4'	Grade: N96
93	Rods	Grade: N96
106	Rods	Grade: N96
116	Sucker Rod	Grade: N96
12	Sinker Bar	Grade: N96
15	1" guided rods	Grade: N96
1	Pump 2.5" X 1.5" X 26"	Grade: N96
	Plunger 3' MP, Brass Chrome	Grade: N96

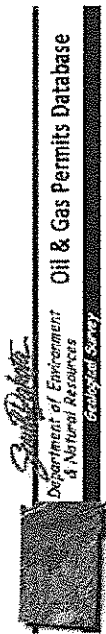


ED Well @ 15,300 MD 8,726' MD

Red River "B"

6 1/8" Open Hole

KOP @ 8,210'



Oil & Gas Permits Database

Oil and Gas Search for API Number: **40 063 2077**

Download Database
Page: 1 of 1

Export Well Info to Excel
Export Formation Info to Excel

New Search
Page 1 of 1

Record 1 of 1

API No:	40 063 2077	County:	Hardy
Well Name:	Cum 44-33H	Location:	SESE Sec 36 Twp 052N Rng 12E
Permit ID:	1382	Total Depth:	8375
Operator Name:	Continental Resources Inc.	Bottom Hole:	Red River Formation
Permit Date:	09-31-2010	KB Elevation:	3115
Spud Date:	01-08-2012	Ground Elevation:	3293
Plug Date:	45-02-2022	Admin Status:	Producing
Latitude (DD):	45.022022	Longitude (DD):	-103.687585
Well Field:	Burlalo	Well Type:	Oil

Production Data: [No Data Pictures Available] [No Injection Data]

View Geophysical Logs
Key to Geophysical Log Lines

Formation	Depth (ft)	Geological Age	Elevation
Greenham Limestone	3464	Carbonaceous	-366
Dakota Sandstone	4506	Carbonaceous	-1406
Pine Salt, Spentfish Formation	5877	Permian	-2575
Minnehaha Limestone	5925	Permian	-2927
Charles Formation	6730	Mississippian	-3632
Lodgepole Limestone	7515	Mississippian	-4417
Duponow Formation	8010	Ordovician	-4812
Red River Formation	8631	Ordovician	-5533



RECEIVED

SEP 21 2012

DEPT OF ENVIRONMENT & NATURAL
RESOURCES - RAPID CITY
WELL COMPLETION OR RECOMPLETION REPORT - Revised

Type of Completion:						
<input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Injection <input type="checkbox"/> Workover <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Other _____						
Name and Address of Operator:						Telephone
Continental Resources, Inc. P.O. Box 268870, Oklahoma City, OK 73126						(405) 234-9000
Name and Address of Drilling Contractor and Rig No:						
Cyclone Drilling #1 P.O. Box 908, Gillette, WY 82717-0908						
Surface Location of well: Qtr-Qtr, Sec, Twp, Rge, County, feet from nearest lines of section, and latitude and longitude (if available):						
SESE Sec 36 T22N R3E, Harding Co., 250' FSL & 225' FEL; Lat: 45 49 15.052; Long: -103 41 15.014						
If Directional, top of pay and bottom hole location from nearest lines of section:						
Top of Pay: 618' FSL & 585' FEL; BHL: 660' FNL & 871' FEL, Sec 25 T22N R3E						
Well Name and No.			Field and Pool, or Wildcat		Permit No.	API No.
Quinn 44-36H			Buffalo Field		1982	40-063-20717
Date Issued			8/31/2010			
Spud Date	TD Date	Compl Date	Elevation	Total Depth (MD & TVD)	Plug Back TD (MD & TVD)	
1/8/2012	2/11/2012	4/26/2012	3115	18,392		
Producing Interval(s), this Completion, Top, Bottom, Name (MD & TVD)					No. of DST's Run	Was Well cored?
Top: 8967' MD 8672' TVD BHL: 18,392' MD 8726' TVD Red River "B"					(see page 2)	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes List Intervals:
Type Electric and Other Logs Run:					Date Directional Survey Submitted	
CBL/mud						

CASING RECORD (Report all strings set in well)

Hole Size	Casing Size	Weight (lb/ft)	Depth Set	Amount Pulled	Sacks and Type of Cement	Top of Cement
13 1/2	9 5/8	36	1472		480 sks Class C, Type 3	Surface
8 3/4	7	23/26/29	8876		895 sks Type III	Surface

TUBING RECORD

Size	Weight (lb/ft)	Depth Set	Packer Type & Depth	Size	Depth Interval	Sacks and Type of Cement
2 7/8	6.5	8668				

LINER RECORD
PERFORATION RECORD

Interval/Depth	Holes Per Ft.	Formation Isolated	Amount and Type of Cement used (indicate if squeeze cemented). Amount and Type of Acid and/or Sand used. Use additional page(s) if needed.
Open Hole			

Continued on Next Page →

PRODUCTION

Date First Production 04/26/2012		Producing Method (Flowing, gas lift, pumping - size and type of pump) Pumping 1 1/2" Plunger				Well Status (Producing or shut-in) Producing	
Date of Test 04/27/2012	Hours Tested 24	Choke Size N/A	Production For Test →	Oil (Bbls) 60	Gas (Mcf) 0	Water (Bbls & %) 227	Oil Gravity - API (Corr.) 32.72
Flowing Tbg Pressure 10		Casing Pressure 0	Calculate 24 Hour Rate →	Oil (Bbls) 60	Gas (Mcf) 0	Water (Bbls & %) 227	Gas-Oil Ratio 0
Disposition of Oil (Purchaser and Transporter), and Gas (sold, used for fuel, vented, etc.)						Test Witnessed By	
List of Attachments/Comments							

GEOLOGIC MARKERS

FORMATION NAME AND BRIEF DESCRIPTION	MEASURED DEPTH	TRUE VERTICAL DEPTH
Greenhorn		3464
Dakota Sand		4506
Pine Salt		5677
Minnekahta		6025
Charles		6730
Lodgepole		7515
Duperow		8010
Red River	8734	8631

Use additional page(s) if needed.


DRILL STEM TEST DATA

Drill Stem Test Results Attached

If not attached, list Depth Interval Tested, Cushion Used, Time Tool Open, Flowing and Shut-in Pressures, and Recoveries.

Use additional page(s) if needed.

I hereby certify that the information herein provided is true, complete, and correct as determined from all available records.


Terry L. Olson
Reg. Compliance
9/17/2012

Signature
Name (Print)
Title
Date

FOR OFFICE USE ONLY

Approved By: _____ Title: _____ Date: _____



RECEIVED

AUG 20 2012

DEPT OF ENVIRONMENT & NATURAL
RESOURCES - RAPID CITY

August 15, 2012

Department of Environment and Natural Resources
Minerals and Mining Program -- Oil and Gas Division
2050 West Main, Suite #1
Rapid City, SD 57702-2493

Re: Quinn 44-36H

Enclosed is a revised copy of the Quinn 44-36H Well Completion Report requested by your office. The revised copy confirms the location of the Bottom Hole and corrects the API number, which was entered incorrectly. If you have any further questions, please do not hesitate to contact me at 405-234-9139 or email the following Terry.Olson@clr.com. Thank you.

Sincerely,

CONTINENTAL RESOURCES, INC.


Terry Olson
Regulatory Compliance Specialist

P.O. Box 1032 • 302 N. Independence • Enid, OK 73702
Voice (580) 233-8955 • Fax (580) 242-4703



DEPARTMENT OF ENVIRONMENT and NATURAL RESOURCES
 Minerals & Mining Program - Oil & Gas Section
 2050 West Main, Suite #1, Rapid City, SD 57702-2403
 Telephone: 605-394-2229, FAX: 605-394-5317

FORM 4
 RECEIVED
 AUG 20 2012

DEPT OF ENVIRONMENT & NATURAL
 RESOURCES - RAPID CITY

WELL COMPLETION OR RECOMPLETION REPORT

Type of Completion: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Injection <input type="checkbox"/> Workover <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Other _____						
Name and Address of Operator: Continental Resources, Inc. P.O. Box 268870, Oklahoma City, OK 73126				Telephone (405) 234-9000		
Name and Address of Drilling Contractor and Rig No: Cyclone Drilling, Inc. #1 P.O. Box 908, Gillette, WY 82717-0908						
Surface Location of well: Qtr-Qtr, Sec, Twp, Rge, County, feet from nearest lines of section, and latitude and longitude (if available): SESE Sec 36 T22N R3E, Harding Co., 250' FSL & 225' FEL; Lat: 45 49 15.052; Long: -103 41 15.014						
If Directional, top of pay and bottom hole location from nearest lines of section: Top of Pay: 618' FSL & 585' FEL; BHL: 660' FNL & 871' FEL, Sec 25 T22N R3E						
Well Name and No. Quinn 44-36H		Field and Pool, or Wildcat West Buffalo Red River		Permit No. 1982	API No. 40-063-20717	Date Issued 8/31/2010
Spud Date 1/8/2012	TD Date 2/11/2012	Compl Date 4/26/2012	Elevation 3115	Total Depth (MD & TVD) 18,392	Plug Back TD (MD & TVD)	
Producing Interval(s), this Completion, Top, Bottom, Name (MD & TVD) Top: 8967' MD 8672' TVD BHL: 18,392' MD 8726' TVD Red River "B"				No. of DST's Run (see page 2)	Was Well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes List Intervals:	
Type Electric and Other Logs Run: CBL/mud				Date Directional Survey Submitted		

CASING RECORD (Report all strings set in well)

Hole Size	Casing Size	Weight (lb/ft)	Depth Set	Amount Pulled	Sacks and Type of Cement	Top of Cement
13 1/2	9 5/8	36	1472		480 sks Class C, Type 3	Surface
8 3/4	7	23/26/29	8876		895 sks Type III	Surface

TUBING RECORD

Size	Weight (lb/ft)	Depth Set	Packer Type & Depth	Size	Depth Interval	Sacks and Type of Cement
2 7/8	6.5	8668				

LINER RECORD

PERFORATION RECORD

Interval/Depth	Holes Per Ft.	Formation Isolated	Amount and Type of Cement used (indicate if squeeze cemented). Amount and Type of Acid and/or Sand used. Use additional page(s) if needed.
Open Hole			

Continued on Next Page →

PRODUCTION

Date First Production 04/26/2012		Producing Method (Flowing, gas lift, pumping - size and type of pump) Pumping 1 1/2" Plunger				Well Status (Producing or shut-in) Producing	
Date of Test 04/27/2012	Hours Tested 24	Choke Size N/A	Production For Test →	Oil (Bbls) 60	Gas (Mcf) 0	Water (Bbls & %) 227	Oil Gravity - API (Corr.) 32.72
Flowing Tbg Pressure 10		Casing Pressure 0	Calculate 24 Hour Rate →	Oil (Bbls) 60	Gas (Mcf) 0	Water (Bbls & %) 227	Gas-Oil Ratio 0
Disposition of Oil (Purchaser and Transporter), and Gas (sold, used for fuel, vented, etc.)						Test Witnessed By	
List of Attachments/Comments							

GEOLOGIC MARKERS

FORMATION NAME AND BRIEF DESCRIPTION	MEASURED DEPTH	TRUE VERTICAL DEPTH
Greenhorn		3464
Dakota Sand		4506
Pine Salt		5677
Minnekahta		6025
Charles		6730
Lodgepole		7515
Duperow		8010
Red River	8734	8631

Use additional page(s) if needed.

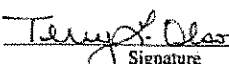
DRILL STEM TEST DATA

Drill Stem Test Results Attached

If not attached, list Depth Interval Tested, Cushion Used, Time Tool Open, Flowing and Shut-in Pressures, and Recoveries.

Use additional page(s) if needed.

I hereby certify that the information herein provided is true, complete, and correct as determined from all available records.


Terry L. Olson
Reg. Compliance
8/15/2012
 Signature Name (Print) Title Date

FOR OFFICE USE ONLY

Approved By: _____ Title: _____ Date: _____

Thune B 1-30

Section 30, 22N, 4E 1320' FNL, 660' FEL
 GL: 3,060' KB: 3,074' API# 40-063-20359
 Harding Co., South Dakota

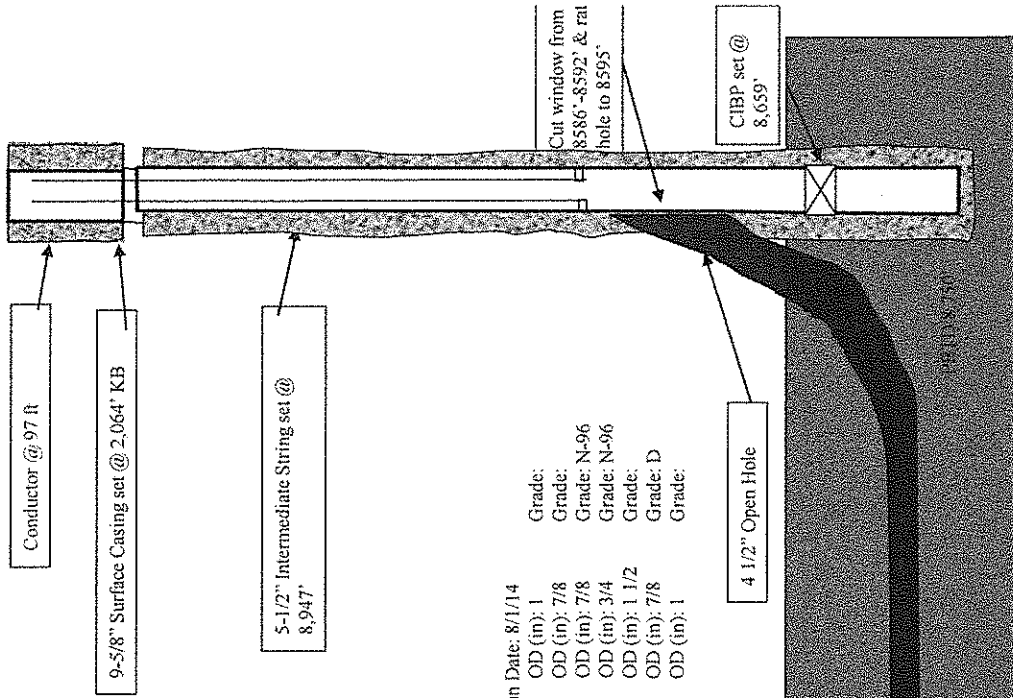
Drilled & Completed: March 1983
 Re-Drilled: March 2008

Casing Detail:

9-5/8" 36# @ 2064' KB cmt'd w/ 2000 sks class G
 5-1/2" 15.5#-20# @ 8947' cmt'd w/ 870 sks class G

Intermediate Casing Detail:

Item Des	Wt	Grade	Jts	Len (ft)	Top (ftKB)	Btm (ftKB)
Casing Joints	20	N-80	151	0	0	151.00
Casing Joints	17	K-55	542	151.00	693.00	693.00
Casing Joints	15.5	K-55	4,235	693.00	4,928.00	4,928.00
Casing Joints	17	K-55	5,001	4,928.00	5,429.00	5,429.00
Casing Joints	20	N-80	593	5,429.00	6,022.00	6,022.00
Casing Joints	17	K-55	2,925	6,022.00	8,947.00	8,947.00



TBG Detail

Jts	Item Des	Wt (lb/ft)	Grade	Len (ft)	Top (ftKB)	Btm (ftKB)
	KB			12	0	12
	Tension			3	12	15
267	Tubing	6.5	L-80	8,359.77	15	8,374.77
1	5-1/2" Anchor			2.75	8,374.77	8,377.52
5	Tubing	6.5	L-80	157.53	8,377.52	8,535.05
1	Seat Nipple			0.75	8,535.05	8,535.80
1	Perf. Sub	6.5	L-80	4	8,535.80	8,539.80
1	Tubing	6.5	L-80	31.60	8,539.80	8,571.40
1	BP-C			0.75	8,571.40	8,572.15

Rod Detail

Rods	Set Depth (ftKB)	8,466.5 Run Date: 8/1/14
1	Polished Rod	OD (in): 1
1	Sucker Rod	OD (in): 7/8
133	Rods/Weatherford HD	OD (in): 7/8
193	Rods/Weatherford HD	OD (in): 3/4
10	Sinker Bar	OD (in): 1 1/2
1	Pump 2" X 1 1/2" X 26	OD (in): 7/8
1		OD (in): 1

9-5/8" 36# @ 2064' KB

5-1/2" 15.5#-20# @ 8947' KB

4 1/2" Open Hole

CIBP set @ 8,659'

Cut window from 8586'-8592' & rat hole to 8595'



Oil & Gas Permits Database

Oil and Gas Station for API Number: 40-063-20359

[Download Database](#)

Page [Prev](#) | [Next](#)

[Export To Excel](#)

[Export Formations To Excel](#)

[New Search](#)

Page 1 of 1

Record 1 of 1

API No:	40 063 20359	County:	Hardy
Well Name:	PN 15-1-30 Thine B	Locality:	CEZAE Sec 30 Twp 02N Rng 04E
Permit ID:	1240	Total Depth:	853
Operator Name:	Continerra Resource Inc.	Bottom Hole:	Red River Format or
Permit Date:	28-26-1982	KB Elevation:	3371
Spud Date:	10-13-1982	Ground Elevation:	3363
Plug Date:		Admin Status:	Producing
Latitude (DD):	45 345465	Longitude (DD):	-103 662701
Well Field:	Suffalo	Well Type:	Oil

[Permit File](#)

[Production Data](#)

[View Geophysical Logs](#)

[No Core Pictures Available](#)

[No Injection Data](#)

[Key for Geophysical Log Type](#)

Formation	Depth (ft.)	Geological Age	Elevation
Greenhorn Limestone	3902	Cretaceous	442
Fall River Sandstone	4463	Cretaceous	1404
Pine Salt Speerfish Formation	5680	Permian	2621
Mission Canyon Limestone	7162	Mississippian	4103
Red River Formation	8650	Ordovician	5931
Unit B, Red River Formation	8692	Ordovician	5633
Unit C, Red River Formation	8758	Ordovician	5639
Unit D, Red River Formation	8812	Ordovician	5753

Page 1 of 1 (continued)

Page [Prev](#) | [Next](#)



FORM 4
RECEIVED

OCT 23 2008

DEPT OF ENVIRONMENT & NATURAL
 RESOURCES - RAPID CITY

WELL COMPLETION OR RECOMPLETION REPORT

Type of Completion:
 Oil Well Gas Well Injection Workover Deepen Plug Back Other Re-Entry

Name and Address of Operator: Prima Exploration, Inc. 7555 E. Hampden Ave., Ste 505, Denver CO 80231 Telephone (303) 755-5681

Name and Address of Drilling Contractor and Rig No: J & R Well Service Rig #8

Surface Location of well: Qtr-Qtr, Sec, Twp, Rge, County, feet from nearest lines of section, and latitude and longitude (if available):
 1320' FNL 660' FEL, SW/NW Sec 30-22N-04E

If Directional, top of pay and bottom hole location from nearest lines of section:
 TOPI - 1377' FSL 678' FEL Sec 30-22N-04E BHL - 751' FSL 1532' FEL Sec 30-22N-04E

Well Name and No. Thune B #1-30	Field and Pool, or Wildcat Buffalo	Permit No. 1850	API No. 40 06320359.01	Date Issued 11/28/2007
Spud Date 1/10/2008	TD Date 1/15/2008	Compl Date 3/1/2008	Elevation 3074' KB 3060' GL	Total Depth (MD & TVD) 12032' MD 8670' TVD
Producing Interval(s), this Completion, Top, Bottom, Name (MD & TVD) TOPI - 8725' MD; 8690'TVD Red River "B" BOPI - 12032' MD; 8670' TVD			No. of DST's Run (see page 2)	Was Well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes List Intervals:
Type Electric and Other Logs Run:			Date Directional Survey Submitted	

CASING RECORD (Report all strings set in well)

Hole Size	Casing Size	Weight (lb/ft)	Depth Set	Amount Pulled	Sacks and Type of Cement	Top of Cement
13 1/2"	9 5/8"	36#	2064'		2000	
7 7/8"	5 1/2"	15.5 - 20#	8947'		870	

TUBING RECORD

Size	Weight (lb/ft)	Depth Set	Packer Type & Depth	Size	Depth Interval	Sacks and Type of Cement
2 7/8"		8593'				

LINER RECORD

PERFORATION RECORD

Interval/Depth	Holes Per Ft.	Formation Isolated	Amount and Type of Cement used (indicate if squeeze cemented). Amount and Type of Acid and/or Sand used. Use additional page(s) if needed.
8725' - 12032'	OH	CIBP @ 8659'	

Continued on Next Page ->

Thune A-1

Section 31, 22N, 4E 1700' FNL, 1700' FEL

GL: 3,020' KB: 3,034' API# 40-063-20071-0000
Harding Co., South Dakota

Drilled & Completed: October 1973
Re-Drilled: May 2005

Casing Detail:

8-5/8" 24# @ 965' KB cmt'd w/ 560 sks class G
5-1/2" 14#-20# @ 8,789' w/ 230 sks class G

Intermediate Casing Detail:

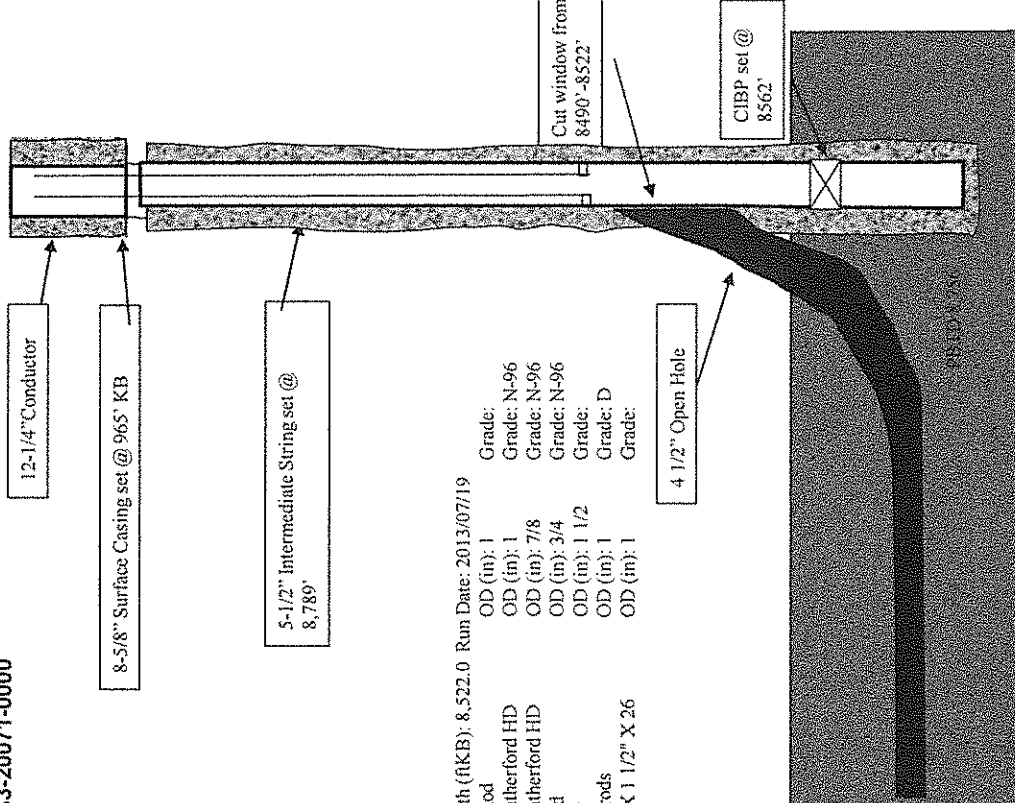
Item Des	Wt	Grade	Jts	Len (ft)	Top (ftKB)	Btm (ftKB)
Casing Joints	17	K-55		2,064	0	2,064.00
Casing Joints	15.5	K-55		450	2,064.00	2,514.00
Casing Joints	20	N-80		852	2,514.00	3,366.00
Casing Joints	15.5	K-55		709	3,366.00	4,075.00
Casing Joints	14	K-55		2,245	4,075.00	6,500.00
Casing Joints	15.5	K-55		1,751	6,500.00	8,251.00
Casing Joints	17	K-55		496	8,251.00	8,747.00
Casing Joints	20	N-80		42	8,747.00	8,789.00

Rod Detail

Jts	Item Des	Wt (lb/ft)	Grade	Len (ft)	Top (ftKB)	Btm (ftKB)
	KB			13	0	13
	Tension			3	13	16
274	5-1/2" Anchor	6.5	L-80	8,395.12	16	8,411.12
1	Tubing			2.75	8,411.12	8,413.87
2	Seat Nipple	6.5	L-80	32.10	8,413.87	8,445.97
1	Perf. Sub	6.5	L-80	0.74	8,445.97	8,446.71
1	Tubing	6.5	L-80	4.11	8,446.71	8,450.82
1	BP-C	6.5	L-80	31.61	8,450.82	8,482.43
				0.75	8,482.43	8,483.18

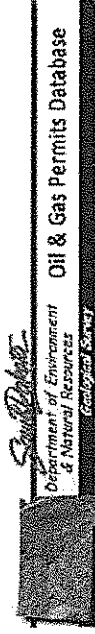
Rods Set Depth (ftKB): 8,522.0 Run Date: 2013/07/19

		OD (in)	Grade:
1	Polished Rod	1	N-96
88	Rods/ Weatherford HD	1	N-96
96	Rods/ Weatherford HD	7/8	N-96
127	Sucker Rod	3/4	N-96
4	Sinker Bar	1 1/2	D
24	1" guided rods	1	D
1	Pump 2" X 1 1/2" X 26	1	D



EDWARDS LUBRICANTS (MD, N-96, 11)

Red River



Export All Info to Excel
Export Formation Top to Excel

Record 1 of 1

Well Information

API No:	40 063 20071	County:	Harding
Well Name:	Phillips 1 Thru A	Location:	SWNE Sec 31 Twp 62N Rng 04E
Permit ID:	689	Total Depth:	6600
Operator Name:	Centennial Resources Inc.	Bottom Hole:	Red River Formation
Permit Date:	07-18-1973	KB Elevation:	3004
Spud Date:	07-27-1973	Ground Elevation:	3020
Plug Date:		Admin Status:	Producing
Latitude (DD):	46.626813	Leasehold (DD):	-439-372753
Well Field:	Bushid	Well Type:	Oil

View Geophysical Logs

Production Data

[No Core Pictures Available]

View for Details of Log 1, 2, 3

Formation	Depth (ft)	Geological Age	Elevation
Plum Silt, Spearfish Formation	5603	Permian	-4613
Minnetonka Limestone	5925	Permian	-2985
Opache Shale	5978	Permian	-2950
Minnetonka Formation	6046	Permian/Pennsylvanian	-3028
1st Leo Sandstone, Minnetonka Formation	6209	Pennsylvanian	-3189
Three Forks Shale	7769	Devonian	-4740
Interlake Dolomite	8122	Silurian	-5102
Guntua, Stony Mountain Formation	8410	Ordovician	-5390
Stony Mountain Formation	8544	Ordovician	-5524
Red River Formation	8573	Ordovician	-5583
Unit B, Red River Formation	9617	Ordovician	-5997
Unit C, Red River Formation	9659	Ordovician	-5670
Unit D, Red River Formation	9737	Ordovician	-5717

DATE OF THIS REPORT

WELL COMPLETION OR RECOMPLETION
REPORT AND LOG

PAD OR LEASE NAME

THIRD 24'

WELL NO.

1

FIELDS AND PLOTS OR WILDCAT

Buffalo Field

NO. ACRES IN LEASE

320

N & SEC TWP. RGE

NE SE NE Sec. 31-T22N-R2E

Black Hills Meridian

COUNTY

Harding

TYPE OF COMPLETION

Oil Well

Gas Well

New Well Work-Over Deepen Plug Back Same Zone Diff Zone

OPERATOR

Phillips Petroleum Company

ADDRESS

Box 2020, Casper, Wyoming 82401

LOCATION (to not show within 1/4 mile of well or legal subdivision where possible)

Section 1700' N1/4 & 1700' E1/4, Sec. 31

Top Prod. Interval

At total depth

API #10-065-20071

PERMITS NO.

690

DATE ISSUED

7/10/73

PREVIOUS PERMIT NO.

DATE ISSUED

DATE STARTED

7/27/73

DATE T.D. REACHED

8/25/73

DATE COMPLETION

9/26/73

ELEVATIONS (to depth of well)

2024' PAD

ELEV. CASINGHEAD

FACE

TOTAL DEPTH

8800

PLUG BACK

8756

IF MULTIPLE COMPL.

HOW MANY*

INTERVALS

SHOWN BY

ROTARY TOOLS

Rotary

CABLE TOOLS

PROBLEMS INTERVALS, THIS COMPLETION, TOP, BOTTOM, NAME (C&T) & TYP*

Red River 8th Zone Perf 6817-8622

DATE DIRECTIONAL

SURVEY SUBMITTED

THIS ELECTRIC AND OTHER LOGS RUN (check those done)

DLL, OR Sonic, OR Correlation log

WAS WELL LOGGED

No

CASING RECORD (continued on reverse if needed)

CASING SIZE	DEPTH SET DOWN	HOLE SIZE	WEIGHT LBS./FT.	PIPING	SACKS CEMENT	AMOUNT PLACED
8-1/2"	200	7-1/2"	24		200 SK CEMENT	0
8-1/2"	500	7-1/2"	24		200 SK CEMENT	0

LINE RECORD

SIZE	TOP OF LOG	DEPTH SET DOWN	WELL NUMBER	SPERM USE	LOG	DEPTH SET DOWN	PACKER SET DOWN
					1-7/8"	2000' 00"	2000' 00"

THROUGH INTERVAL (C&T)	THROUGH PERCENT	THROUGH PERCENT	THROUGH PERCENT	THROUGH PERCENT	THROUGH PERCENT	THROUGH PERCENT
8800-8756		24	12	171	33	

PERMEABILITY

DATE FIRST PRODUCTION 9/21/73 PRODUCTION METHOD Pumping - 1-1/2" Insect Pump WELL SEALED? Head or throat

WEIGHT LOSS (GALLONS) (GALLONS) (GALLONS) (GALLONS) (GALLONS) (GALLONS) (GALLONS)

10/1/73 24 - 24 12 171 33

FLOW TEMPERATURE (C&T) (C&T) (C&T) (C&T) (C&T) (C&T) (C&T)

24 12 171

DISPOSITION OF GAS (check, used for fuel, vented, etc.) Head For Fuel TEST WITNESSED BY Phillips Petroleum Company

LIST OF ATTACHMENTS

I hereby certify that the foregoing and attached information is true and correct to the best of my knowledge and belief.

Approved: F. E. MORGAN, Secretary

Approved: _____, Secretary

3 - S. Dakota Oil & Gas Board

2 - Denver Prod.

1 - File

Thomas B 1R

Section 32 T22N R4E 908' FSL, 1748' FEL
GL 3,038' & 3,050' KB

Harding County, South Dakota

Spud: 11-10-82

Re-completion: 4/05

Casing Detail:

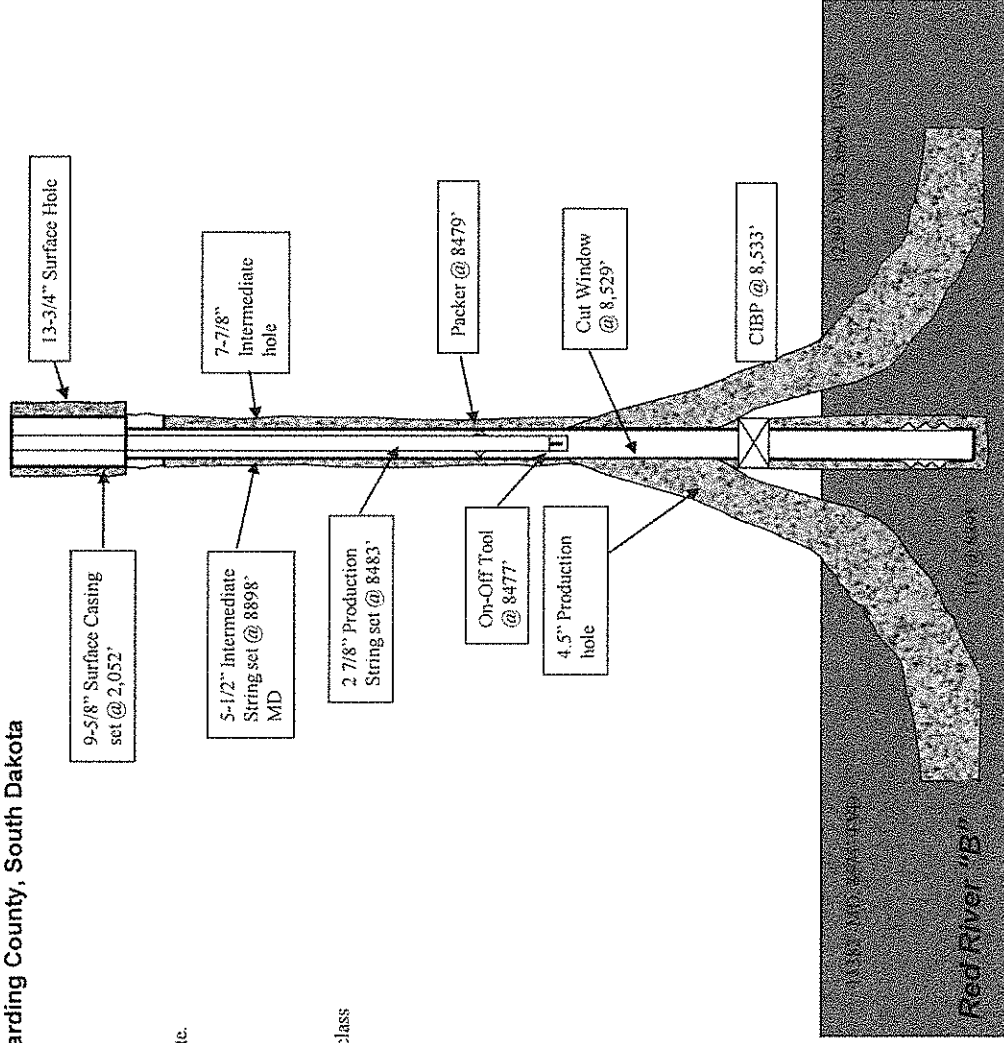
9 5/8": Set @ 2,052' MD. Cmt'd w/ 1300 sks class G, BJ Lite.

Production Casing Detail:

5 1/2": Set @ 8898' MD 15# & 17# csg. Cmt'd w/ 600 sks class G, 270 sks BJ Lite

Tubing String Detail:

2 7/8": Set @ 8483'. 259 jts 2-7/8" L80 EUE tbg. On-Off Tool @ 8477', Packer @ 8479'



Oil and Gas Search for AP Number like 40-053-20060

[Download Database](#)
[Page](#) | [Prev](#) | [Next](#)

[Export Well Info to Excel](#)

[Export Formation Tops to Excel](#)

[New Search](#)

Page 1 of 1

Record 1 of 1

API No: 40-053-20060 Well Name: Philips 1-F, Thomas B Permit ID: 1241 Operator Name: Continental Resources Inc. Permit Date: 20-23-1992 Start Date: 11-0-1992 Plug Date: Latitude (DD): 45-033869 Well Field: Buffalo	County: Location: NE NW/ Sec 32 Twp 02N Rng 04E Total Depth: 8820 Bottom Hole: Red River Formation RB Elevation: 3020 Ground Elevation: 3028 Admin Status: Injecting Longitude (DD): -103-059236 Well Type: Water Injection
--	--

Well Information

[Print File](#)

[Production Data](#)

[View Geophysical Logs](#)

[No Core Pictures Available]

[No Injection Eval]

[View Geophysical Log Type](#)

Formation Tops

Formation	Depth (ft)	Geological Age	Elevation
Greathorn Limestone	3455	Cretaceous	-421
Fall River Sandstone	4426	Cretaceous	-1388
Pine Salt Sparfish Formation	5638	Permian	-2670
Mission Canyon Limestone	7120	Mississippian	-4092
Three Forks Shale	7610	Dewonian	-4572
Red River Formation	8638	Ordovician	-5670
Unit B, Red River Formation	8648	Ordovician	-5610
Unit C, Red River Formation	8716	Ordovician	-5600
Unit D, Red River Formation	8758	Ordovician	-5790

STATE PUB. NO. 10220

WELL COMPLETION OR RECOMPLETION REPORT AND LOG				FARM OR LEASE NAME Thomas B	
TYPE OF COMPLETION <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> _____				WELL NO. 1R	
<input checked="" type="checkbox"/> New Well <input type="checkbox"/> Work-Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Same Zone <input type="checkbox"/> Diff Zone				FIELD AND POOL, OR WILDCAT Buffalo-Red River	
OPERATOR Phillips Petroleum Company				NO. ACRES IN LEASE 320	
ADDRESS P.O. Box 2920, Casper, WY 82602				N. S. SEC. TWP. RGE. NE NW, Sec. 32-T22N-R4E	
LOCATION (In feet from nearest line of section or legal subdivision where possible)* Surface 908' FNL & 1748' FWL Top prod. interval At total depth API #40-063-20360				COUNTY Harding	
PERMIT NO. 1241	DATE ISSUED 9/29/82	PREVIOUS PERMIT NO. ---	DATE ISSUED		
DATE SPUNDED 11/10/82	DATE T. D. REACHED 12/3/82	DATE COMPL. (Ready to Prod.) 3/23/83	ELEVATIONS (DF, RKB, RT, CH, etc.)* GR 3038' RKB 3050'	ELEV. CASINGHEAD FLGE. 3038'	
TOTAL DEPTH (MD & TVD) 8900'	PLUG BACK T. D. (MD & TVD) 8735'	IF MULTIPLE COMPL. HOW MANY*	INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
PRODUCING INTERVAL(S), THIS COMPLETION, TOP, BOTTOM, NAME (MD & TVD)* 8648' - 8654' Red River "B"					DATE DIRECTIONAL SURVEY SUBMITTED NA
TYPE ELECTRIC AND OTHER LOGS RUN (Circle those filed) BHC-Sonic GR-CAL					WAS WELL CORED NO

CASING RECORD (Report all strings set in well)						
CASING SIZE	DEPTH SET (MD)	HOLE SIZE	WEIGHT LBS./FT.	PURPOSE	SACKS CEMENT	AMOUNT PULLED
9-5/8"	2052'	13-1/2"	36#	Surface	1000 sx BJ Lite	--
5-1/2"	8898'	7-7/8"	17 & 20#	Production	300 sx Class G 600 sx Class G	--
					270 sx BJ Lite	

LINER RECORD				TUBING RECORD			
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
--	--	--	--	--	2-7/8"	8728'	--

PERFORATION RECORD				ACID SHOT, FRAC, CEMENT SQUEEZE, ETC.			
DEPTH INTERVAL (MD)	HOLS PER FT.	SIZE AND TYPE	PURPOSE	AMOUNT AND KIND OF MATERIAL USED	DEPTH INTERVAL (MD)		
8648-8654'	4 SPF	4" csg gun	Production	Acidized w/300 gal Blend A20-2, tailed in w/500 gal 2% KCL wtr w/1 gal Aquaflo. Displd w/2%	8648-8654'		

DATE FIRST PRODUCTION		PRODUCING METHOD (Flowing, gas lift, pumping, size & type of pump)			WELL STATUS (Prod. or shut-in)		
1/11/83	Pumping	1-1/4" pump			Producing		
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PRODUCTION FOR TEST	OIL, Bbls.	GAS, Mcf.	WATER, Bbls. & %	OIL GRAVITY-API (Corr.)
4/18/83	24	--	--	24	7	78	33
FLOW TUBING PRESSURE	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL, Bbls.	GAS, Mcf.	WATER, Bbls. & %	GAS-OIL RATIO	
--	--	--	24	7	78	292	
DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)						TEST WITNESSED BY	
Used for fuel						--	

LIST OF ATTACHMENTS
None

I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

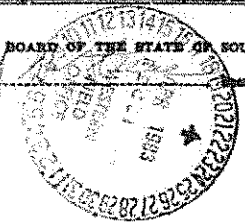
SIGNED D. A. E. Stuart TITLE Area Manager DATE 4/20/83

APR 25 1983

Approved _____ Date _____

OIL AND GAS BOARD OF THE STATE OF SOUTH DAKOTA

1 - State of SD 1 - Whitnire
1 - B'Ville-Conner 1 - Coffelt
1 - Billings, Harrison 1 - Fraser 1 - File



(5) Information on abandoned and active water wells, as follows:

(a) Abandoned water wells: None

(i) The legal location;

(ii) Well name; and

(iii) Method of abandonment, if available;

(b) Active water wells: There is one active water well within a ½ mile radius of CBRRU 24-31NH. Tim Brown is the owner of the water well.

(i) The legal location; 45.827309, -103.675718. Located in the middle of T22N R4E S31

(ii) Well name: NA

(iii) NA

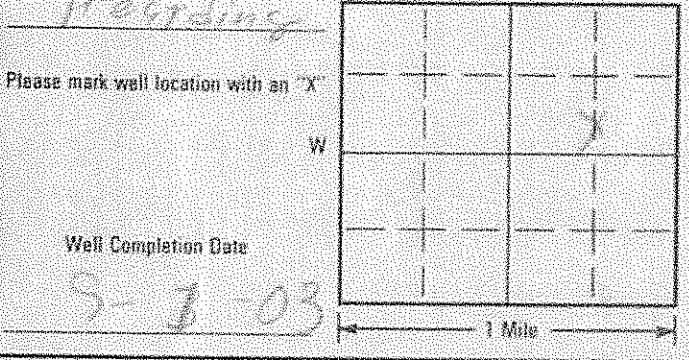
(iv) The construction program, including casing size and type, if available; See Attached. Casing Size and Type: 2 lb/ft 5" plastic pipe to 240'.

The well is owned by Tim Brown. The well was drilled and completed September 2003 to a depth of 240'.

SOUTH DAKOTA WATER WELL COMPLETION REPORT

07-92

Location 14 14 Sec 31 Twp 22 Rg 4
 County Harrison North



Well Owner: Jim Brown
 Business Name: _____
 Address: _____

FORMATION	DEPTH	
	FROM	TO
<u>Clay</u>	<u>0</u>	<u>183</u>
<u>Sand</u>	<u>183</u>	<u>236</u>
<u>Clay</u>	<u>236</u>	<u>240</u>

LOCATION:
 Distance from nearest potential pollution source (septic tank, abandoned well, feed lot, etc.): 800 ft from oil well (identify source)

PROPOSED USE:
 Domestic/Stock Municipal Business Test Holes
 Irrigation Industrial Institutional Monitoring well

METHOD OF DRILLING:

CASING DATA: Steel Plastic Other

If other describe _____

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
<u>200</u> LB/FT	<u>5</u> IN	<u>0</u> FT	<u>240</u> FT	<u>4 1/2</u> IN

GROUTING DATA

Grout Type	No. of Sacks	Grout Weight	From	To
<u>Concrete</u>		lb./gal	<u>10</u> ft	<u>190</u> ft
		lb./gal	ft	ft

Describe grouting procedure _____

SCREEN: Perforated pipe Manufactured

Diameter 5 IN Length 40 FEET

Material Plastic

Slot Size 200 Set From 190 Feet to 230 Feet

Other information _____

WAS A PACKER OR SEAL USED? YES NO

If so, what material? _____

Describe packer(s) and location? _____

DISINFECTION: Was well disinfected upon completion? YES. How Chlorine

Laboratory sent to for water quality analysis _____ NO, Why Not? _____

STATIC WATER LEVEL: 40 Feet

If flowing: closed in pressure _____ PSI

GPM flow _____ through _____ inch pipe

Controlled by Valve Reducers Other _____

Reduced Flowrate _____ GPM

Can well be completely shut in? _____

WELL TEST DATA:

Pumped Describe 900 Reel 100

Bailed

Other _____

Pumping Level Below Land Surface

60 ft After 1 Hrs. pumped 15 GPM

240 ft After 1 Hrs. pumped 100 GPM

If pump installed, pump rate _____ GPM

REMARKS

RECEIVED
MAY 17 2004
WATER RIGHTS PROGRAM

This well was drilled under license # 107

And this report is true and accurate

Drilling firm Lewis & Clark Drilling

Signature of License Representative: _____

Signature of Well Owner or Equitable Property Holder: _____

Date: _____

(10) The source and nature of the substance or substances to be injected, its viscosity, its compatibility with the receiving formation, including stability indices, and the estimated average and maximum daily amounts to be injected. If the nature of the injected fluid is produced water, a water quality analysis must be submitted and must include information on total dissolved solids content, chlorides, sodium, sulfates, nitrates, and hydrocarbons;

See attached water analysis from Jacam Laboratories. The water for injection will all be from the Red River Formation from the Central Buffalo Red River Unit wells, Buffalo Red River Unit wells, and Table Mountain #1-7F well. The attached water analysis data sheets are for CBRRU wells, BRRU wells, and the Table Mountain well. The analysis also includes various combinations of water from the above sources to test for compatibility and scaling tendencies. Jacam states that there is a potential to precipitate iron carbonate and iron sulfide, although this issue can be eliminated by treating with 50 ppm WWT 1900 chemical.

Water Analysis Analysis #: 10000

Company: PRIMA EXPLORATION
 Field: PRIMA EXPLORATION
 Lease: CBRRU THUNE FEDERAL
 Location: BUFFALO CO., SD
 Description: TREATER
 Well:
 Sample Point: BLEEDER



JACAM Chemicals, L. L. C.

205 S. Broadway P.O. Box 35 STEHLING, KS 67579
 820-278-3355 Fax 820-278-2112
 Web: www.jacam.com Email: solutions@jacam.com

Date: July 25, 2005
 Attention: JESSE SMYLE

DISSOLVED SOLIDS

CATIONS	mg/l	meq/l
Sodium, Na (calc)	4,985.48	216.76
Calcium, Ca	800.00	39.80
Magnesium, Mg	636.84	52.20
Barium, Ba	0.00	0.00
Iron, Fe	100.00	5.38

ANIONS	mg/l	meq/l
Hydroxyl, OH		
Carbonate, CO3		
Bicarbonate, HCO3	514.00	8.41
Sulfate, SO4	2,750.00	56.35
Chloride, Cl	7,000.00	197.18
Sulfide, S	0.00	0.00

OTHER PROPERTIES

pH	7.00
Specific Gravity	1.005
Dissolved Oxygen, (mg/l)	
Dissolved Carbon Dioxide	35.20
Sulfide as H2S, (ppm)	0.00
Sample Temp:	91 F. 33 C.

Total Dissolved Solids (mg/l)	16,786
Total Ionic Strength	0.3619
Maximum CaSO4, (calc.)	2,729
Maximum BaSO4, (calc.)	0
Total Hardness	4,600.00 92.00

ESTIMATED MINERAL CONTENT AT SAMPLE TEMPERATURE

	meq/l	mg/l	lbs/kbbf
CaCO3	0.00	0.00	0.00
CaSO4	40.08	2,729.00	956.00
BaSO4	0.00	0.00	0.00

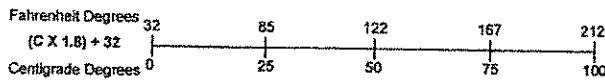
Note:
 Since scale forming molecules can exist in solution, refer to the CaCO3 saturation index for CaCO3, or the solubilities for CaSO4 and BaSO4, and compare with the calculated amounts above to determine if precipitated scale may be possible.

Conclusion:

Calcium Carbonate scaling index is positive above 18 degrees Centigrade.
 Calcium Sulfate scale is indicated. See appropriate chart for temperature ranges.
 Barium Sulfate scale is not indicated from 0 to 100 degrees Centigrade.

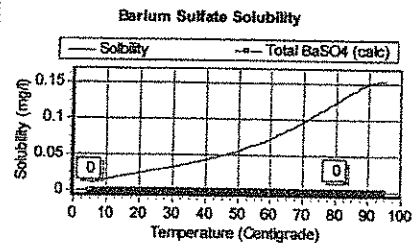
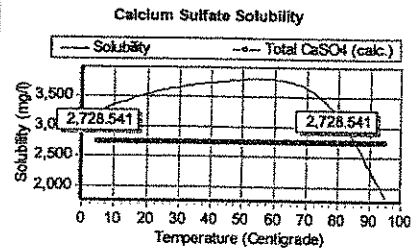
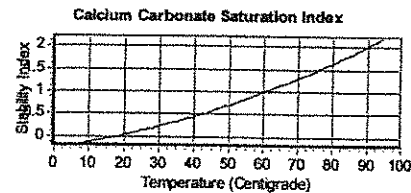
Remarks:

SAMPLE WATER IS PALE ORANGE.



version 2.0

Scaling Indices vs. Temperature



Water Analysis Analysis #: 10002

Company: PRIMA EXPLORATION
Field: PRIMA EXPLORATION
Lease: CBRRU TRUNE A
Location: BUFFALO CO., SD
Description: TREATER
Well:
Sample Point: BLEEDER



JACAM Chemicals, L. L. C.

205 S. Broadway 620-278-3355
 P.O. Box 95 Fax 620-278-2112
 SYDARLING, KS 67578 Web: www.jacam.com
 Email: solutions@jacam.com

Date: July 25, 2005
Attention: JESSE SMYLE

DISSOLVED SOLIDS

CATIONS	mg/l	meq/l
Sodium, Na (calc)	6,681.04	290.48
Calcium, Ca	720.00	35.82
Magnesium, Mg	1,027.00	84.18
Barium, Ba	0.00	0.00
Iron, Fe	15.00	0.81

ANIONS	mg/l	meq/l
Hydroxyl, OH		
Carbonate, CO3		
Bicarbonate, HCO3	396.50	6.49
Sulfate, SO4	1,900.00	38.93
Chloride, Cl	10,000.00	281.69
Sulfide, S	0.00	0.00

OTHER PROPERTIES

pH	7.00
Specific Gravity	1.010
Dissolved Oxygen, (mg/l)	
Dissolved Carbon Dioxide	28.20
Sulfide as H2S, (ppm)	0.00
Sample Temp:	116F. 47C.

Total Dissolved Solids (mg/l)	20,740
Total Ionic Strength	0.4503
Maximum CaSO4, (calc.)	2,459
Maximum BaSO4, (calc.)	0
	mg/l meq/l
Total Hardness	6,000.00 120.00

ESTIMATED MINERAL CONTENT AT SAMPLE TEMPERATURE

	meq/l	mg/l	lbs/kbbf
CaCO3	0.00	0.00	0.00
CaSO4	36.12	2,459.00	862.00
BaSO4	0.00	0.00	0.00

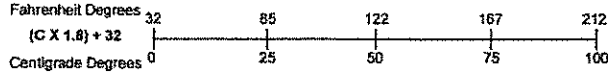
Note:
 Since scale forming molecules can exist in solution, refer to the CaCO3 saturation index for CaCO3, or the solubilities for CaSO4 and BaSO4, and compare with the calculated amounts above to determine if precipitated scale may be possible.

Conclusion:

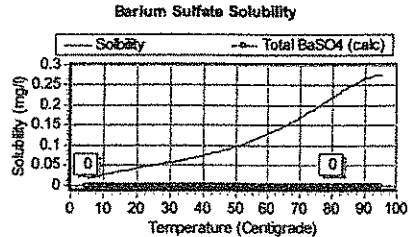
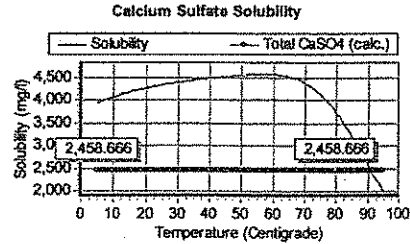
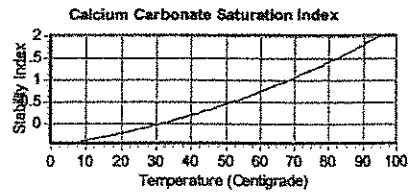
Calcium Carbonate scaling index is positive above 31 degrees Centigrade.
 Calcium Sulfate scale is indicated. See appropriate chart for temperature ranges.
 Barium Sulfate scale is not indicated from 0 to 100 degrees Centigrade.

Remarks:

SAMPLE WATER IS BLACK.



Scaling Indices vs. Temperature



Water Analysis Analysis #: 10001

Company: PRIMA EXPLORATION
 Field: PRIMA EXPLORATION
 Lease: CBRRU SERLES A
 Location: BUFFALO CO., SD
 Description: TREATER
 Well:
 Sample Point: BLEEDER



JACAM Chemicals, L. L. C.
 205 S. Broadway P.O. Box 86 STERLING, KS 67579
 620-276-3355 Fax 620-276-2112
 Web: www.jacam.com
 Email: solutions@jacam.com

Date: July 25, 2005
 Attention: JESSE SMYLE

DISSOLVED SOLIDS

CATIONS	mg/l	meq/l
Sodium, Na (calc)	5,574.28	242.36
Calcium, Ca	1,000.00	49.75
Magnesium, Mg	808.25	66.25
Barium, Ba	0.00	0.00
Iron, Fe	500.00	26.88

ANIONS	mg/l	meq/l
Hydroxyl, OH		
Carbonate, CO3		
Bicarbonate, HCO3	213.50	3.49
Sulfate, SO4	1,650.00	33.81
Chloride, Cl	10,000.00	281.69
Sulfide, S	0.00	0.00

OTHER PROPERTIES

pH	6.80
Specific Gravity	1.005
Dissolved Oxygen, (mg/l)	
Dissolved Carbon Dioxide	35.20
Sulfide as H2S, (ppm)	0.20
Sample Temp:	101.F. 38C.

Total Dissolved Solids (mg/l)	19,746
Total Ionic Strength	0.4153
Maximum CaSO4, (calc.)	2,350
Maximum BaSO4, (calc.)	0
Total Hardness	5,800.00 116.00

ESTIMATED MINERAL CONTENT AT SAMPLE TEMPERATURE

	meq/l	mg/l	lbs/kbbf
CaCO3	0.00	0.00	0.00
CaSO4	34.53	2,350.00	824.00
BaSO4	0.00	0.00	0.00

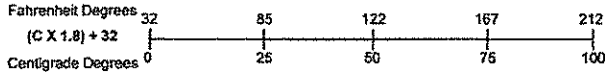
Note: Since scale forming molecules can exist in solution, refer to the CaCO3 saturation index for CaCO3, or the solubilities for CaSO4 and BaSO4, and compare with the calculated amounts above to determine if precipitated scale may be possible.

Conclusion:

Calcium Carbonate scaling index is positive above 44 degrees Centigrade.
 Calcium Sulfate scale is indicated. See appropriate chart for temperature ranges.
 Barium Sulfate scale is not indicated from 0 to 100 degrees Centigrade.

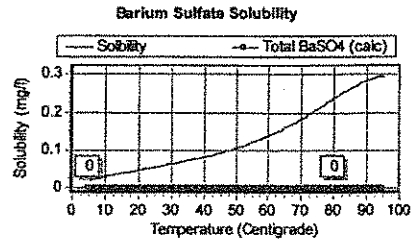
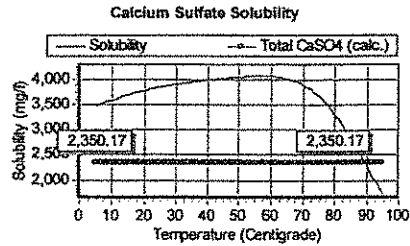
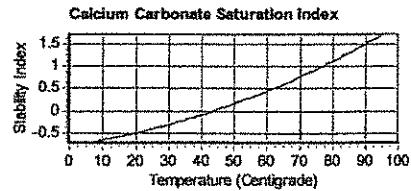
Remarks:

SAMPLE WATER IS PALE BLACK.



version 2.0

Scaling Indices vs. Temperature



Water Analysis Analysis #: 9997

Company: PRIMA EXPLORATION
 Field: PRIMA EXPLORATION
 Lease: BRRO SWD
 Location: BUFFALO CO., SD
 Description: RECEIVING TANK
 Well:
 Sample Point: BLEEDER



JACAM Chemicals, L. L. C.

205 S. Broadway P.O. Box 96 STERLING, KS 67579
 820-278-3355 Fax 880-278-2112
 Web: www.jacam.com Email: solutions@jacam.com

Date: July 25, 2005
 Attention: JESSE SMYLE

DISSOLVED SOLIDS

CATIONS	mg/l	meq/l
Sodium, Na (calc)	3,986.59	173.33
Calcium, Ca	880.00	43.78
Magnesium, Mg	783.48	64.22
Barium, Ba	0.00	0.00
Iron, Fe	1.00	0.05

ANIONS	mg/l	meq/l
Hydroxyl, OH		
Carbonate, CO3		
Bicarbonate, HCO3	1,220.00	19.97
Sulfate, SO4	1,100.00	22.54
Chloride, Cl	6,200.00	174.65
Sulfide, S	0.00	0.00

OTHER PROPERTIES

pH	7.00
Specific Gravity	1.000
Dissolved Oxygen, (mg/l)	
Dissolved Carbon Dioxide	52.80
Sulfide as H2S, (ppm)	8.00
Sample Temp:	73F, 23C.

Total Dissolved Solids (mg/l)	14,171
Total Ionic Strength	0.3159
Maximum CaSO4, (calc.)	1,564
Maximum BaSO4, (calc.)	0
Total Hardness	5,400.00 108.00

ESTIMATED MINERAL CONTENT AT SAMPLE TEMPERATURE

	meq/l	mg/l	lbs/kbbi
CaCO3	0.00	0.00	0.00
CaSO4	22.98	1,564.00	548.00
BaSO4	0.00	0.00	0.00

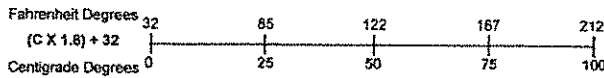
Note:
 Since scale forming molecules can exist in solution, refer to the CaCO3 saturation index for CaCO3, or the solubilities for CaSO4 and BaSO4, and compare with the calculated amounts above to determine if precipitated scale may be possible.

Conclusion:

Calcium Carbonate scaling index is positive above 5 degrees Centigrade.
 Calcium Sulfate scale is not indicated from 0 to 100 degrees Centigrade.
 Barium Sulfate scale is not indicated from 0 to 100 degrees Centigrade.

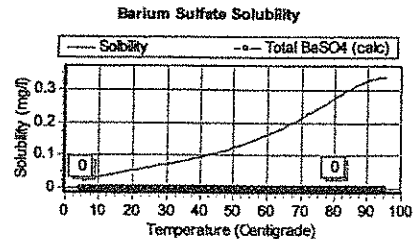
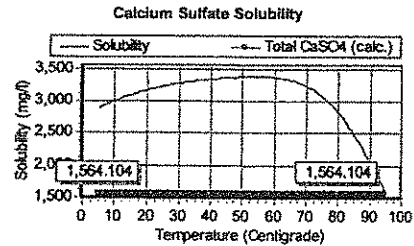
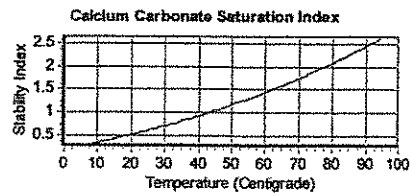
Remarks:

SAMPLE WATER IS BLACK.



version 2.0

Scaling Indices vs. Temperature



Water Analysis Analysis #: 9999

Company: PRIMA EXPLORATION
Field: PRIMA EXPLORATION
Lease: CBRRU THUNE LEASE
Location: BUFFALO CO., SD
Description: TREATER
Well:
Sample Point: BLEEDER

JACAM Chemicals, L. L. C.

205 S. Broadway
 P.O. Box 86
 STERLING, KS 67579
 Email: solutions@jacam.com

820-278-3355
 Fax 820-278-2112
 Web: www.jacam.com

Date: July 25, 2005

Attention: JESSE SHYLE

DISSOLVED SOLIDS

CATIONS	mg/l	meq/l
Sodium, Na (calc)	6,873.09	298.83
Calcium, Ca	960.00	47.76
Magnesium, Mg	442.13	36.24
Barium, Ba	0.00	0.00
Iron, Fe	0.00	0.00

ANIONS	mg/l	meq/l
Hydroxyl, OH		
Carbonate, CO3		
Bicarbonate, HCO3	366.00	5.99
Sulfate, SO4	1,500.00	30.74
Chloride, Cl	11,000.00	309.86
Sulfide, S	0.00	0.00

OTHER PROPERTIES

pH	7.00
Specific Gravity	1.010
Dissolved Oxygen, (mg/l)	
Dissolved Carbon Dioxide	35.20
Sulfide as H2S, (ppm)	0.20
Sample Temp:	106F. 41C.

Total Dissolved Solids (mg/l)	21,141
Total Ionic Strength	0.4240
Maximum CaSO4, (calc.)	2,137
Maximum BaSO4, (calc.)	0
Total Hardness	4,200.00 84.00

ESTIMATED MINERAL CONTENT AT SAMPLE TEMPERATURE

	meq/l	mg/l	lbs/kbbbl
CaCO3	0.00	0.00	0.00
CaSO4	31.40	2,137.00	749.00
BaSO4	0.00	0.00	0.00

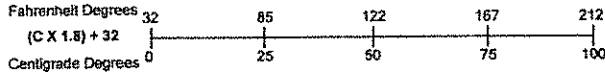
Note: Since scale forming molecules can exist in solution, refer to the CaCO3 saturation index for CaCO3, or the solubilities for CaSO4 and BaSO4, and compare with the calculated amounts above to determine if precipitated scale may be possible.

Conclusion:

Calcium Carbonate scaling index is positive above 26 degrees Centigrade.
 Calcium Sulfate scale is indicated. See appropriate chart for temperature ranges.
 Barium Sulfate scale is not indicated from 0 to 100 degrees Centigrade.

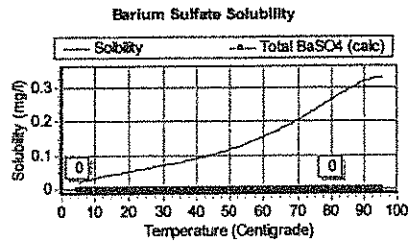
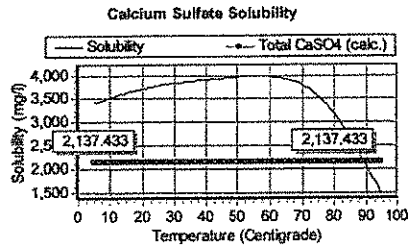
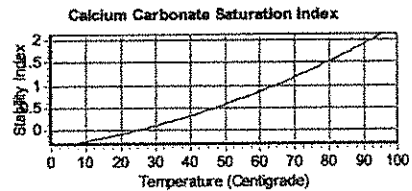
Remarks:

SAMPLE WATER IS ORANGE.



version 2.0

Scaling Indices vs. Temperature



Water Analysis Analysis #: 10006

Company: PRIMA EXPLORATION
 Field: PRIMA EXPLORATION
 Lease: CBRRU THUNE B
 Location: BUFFALO CO., SD
 Description: TREATER
 Well:
 Sample Point: BLEEDER



JACAM Chemicals, L. L. C.
 205 S. Broadway P.O. Box 96
 STERLING, KS 67579
 620-278-3355 Fax 620-278-2112
 Web: www.jacam.com
 Email: solutions@jacam.com

Date: July 25, 2005

Attention: JESSE SMYLE

DISSOLVED SOLIDS

CATIONS	mg/l	meq/l
Sodium, Na (calc)	7,535.03	327.61
Calcium, Ca	640.00	31.84
Magnesium, Mg	758.35	62.16
Barium, Ba	0.00	0.00
Iron, Fe	0.50	0.03

ANIONS	mg/l	meq/l
Hydroxyl, OH		
Carbonate, CO3		
Bicarbonate, HCO3	402.60	6.59
Sulfate, SO4	2,100.00	43.03
Chloride, Cl	11,000.00	309.86
Sulfide, S	0.00	0.00

OTHER PROPERTIES

pH	7.00
Specific Gravity	1.005
Dissolved Oxygen, (mg/l)	
Dissolved Carbon Dioxide	21.10
Sulfide as H2S, (ppm)	4.00
Sample Temp:	109F. 43C.

Total Dissolved Solids (mg/l)	22,436
Total Ionic Strength	0.4614
Maximum CaSO4, (calc.)	2,187
Maximum BaSO4, (calc.)	0
	mg/l meq/l
Total Hardness	4,700.00 94.00

ESTIMATED MINERAL CONTENT AT SAMPLE TEMPERATURE

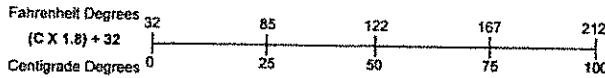
	meq/l	mg/l	lbs/kbbf
CaCO3	0.00	0.00	0.00
CaSO4	32.12	2,187.00	766.00
BaSO4	0.00	0.00	0.00

Note:
 Since scale forming molecules can exist in solution, refer to the CaCO3 saturation index for CaCO3, or the solubilities for CaSO4 and BaSO4, and compare with the calculated amounts above to determine if precipitated scale may be possible.

Conclusion:

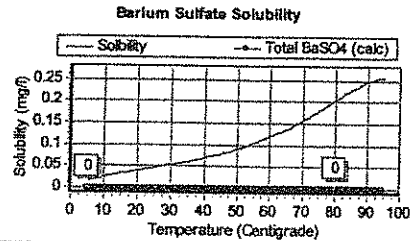
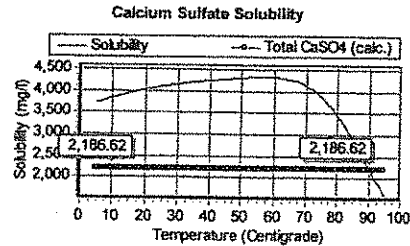
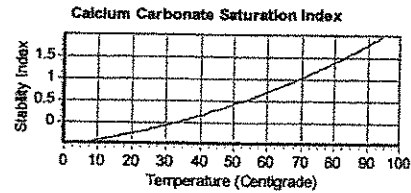
Calcium Carbonate scaling Index is positive above 34 degrees Centigrade.
 Calcium Sulfate scale is indicated. See appropriate chart for temperature ranges.
 Barium Sulfate scale is not indicated from 0 to 100 degrees Centigrade.

Remarks:



version 2.0

Scaling Indices vs. Temperature



Water Analysis Analysis #: 10003

Company: PRIMA EXPLORATION
 Field: PRIMA EXPLORATION
 Lease: CBRRU THOMAS B
 Location: BUFFALO CO., SD
 Description: TREATER
 Well:
 Sample Point: BLEEDER



JACAM Chemicals, L. L. C.

205 S. Broadway
 P.O. Box 98
 STERLING, KS 67578
 Email: solutions@jacam.com
 620-278-3255
 Fax 620-278-2112
 Web: www.jacam.com

Date: July 25, 2005
 Attention: JESSE SMYLE

DISSOLVED SOLIDS

CATIONS	mg/l	meq/l
Sodium, Na (calc)	6,746.59	293.33
Calcium, Ca	600.00	29.85
Magnesium, Mg	831.43	68.15
Barium, Ba	0.00	0.00
Iron, Fe	10.00	0.54

ANIONS	mg/l	meq/l
Hydroxyl, OH		
Carbonate, CO3		
Bicarbonate, HCO3	439.20	7.19
Sulfate, SO4	1,700.00	34.84
Chloride, Cl	10,000.00	281.69
Sulfide, S	0.00	0.00

OTHER PROPERTIES

pH	7.00
Specific Gravity	1.005
Dissolved Oxygen, (mg/l)	
Dissolved Carbon Dioxide	26.40
Sulfide as H2S, (ppm)	0.00
Sample Temp:	114 F. 46 C.

Total Dissolved Solids (mg/l)	20,327
Total Ionic Strength	0.4259
Maximum CaSO4, (calc.)	2,049
Maximum BaSO4, (calc.)	0
Total Hardness	4,900.00 98.00

ESTIMATED MINERAL CONTENT AT SAMPLE TEMPERATURE

	meq/l	mg/l	lbs/kbbf
CaCO3	0.00	0.00	0.00
CaSO4	30.10	2,049.00	718.00
BaSO4	0.00	0.00	0.00

Note: Since scale forming molecules can exist in solution, refer to the CaCO3 saturation index for CaCO3, or the solubilities for CaSO4 and BaSO4, and compare with the calculated amounts above to determine if precipitated scale may be possible.

Conclusion:

Calcium Carbonate scaling index is positive above 32 degrees Centigrade.
 Calcium Sulfate scale is indicated. See appropriate chart for temperature ranges.
 Barium Sulfate scale is not indicated from 0 to 100 degrees Centigrade.

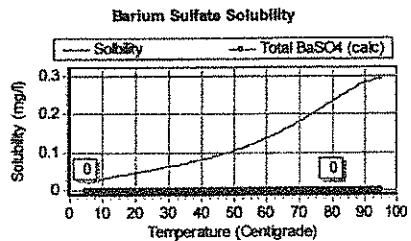
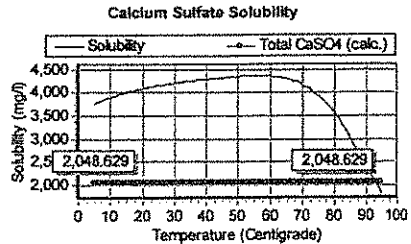
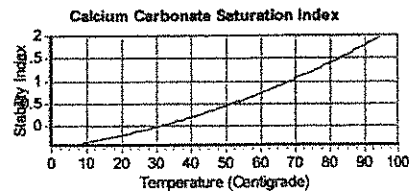
Remarks:

SAMPLE WATER IS BLACK.

Fahrenheit Degrees 32 85 122 167 212
 (C X 1.8) + 32
 Centigrade Degrees 0 25 50 75 100

version 2.0

Scaling Indices vs. Temperature



Water Analysis Analysis #: 10004

Company: PRIMA EXPLORATION
Field: PRIMA EXPLORATION
Lease: CRRU 43-29 BROWN
Location: BUFFALO CO., SD
Description: TREATER
Well:
Sample Point: BLEEDER



JACAM Chemicals, L. L. C.

205 S. Broadway 620-278-3355
 P.O. Box 96 Fax 620-278-2112
 STERLING, KS 67579 Web: www.jacam.com
 Email: solutions@jacam.com

Date: July 25, 2005
Attention: JESSE SMYLE

DISSOLVED SOLIDS

CATIONS	mg/l	meq/l
Sodium, Na (calc)	6,512.91	283.17
Calcium, Ca	920.00	45.77
Magnesium, Mg	368.81	30.23
Barium, Ba	0.00	0.00
Iron, Fe	0.00	0.00

ANIONS	mg/l	meq/l
Hydroxyl, OH		
Carbonate, CO3		
Bicarbonate, HCO3	445.30	7.29
Sulfate, SO4	1,950.00	39.96
Chloride, Cl	10,000.00	281.69
Sulfide, S	0.00	0.00

OTHER PROPERTIES

pH	7.60
Specific Gravity	1.010
Dissolved Oxygen, (mg/l)	
Dissolved Carbon Dioxide	21.10
Sulfide as H2S, (ppm)	15.00
Sample Temp:	136F. 56C.

Total Dissolved Solids (mg/l)	20,197
Total Ionic Strength	0.4041
Maximum CaSO4, (calc.)	2,778
Maximum BaSO4, (calc.)	0
	mg/l meq/l
Total Hardness	3,800.00 76.00

ESTIMATED MINERAL CONTENT AT SAMPLE TEMPERATURE

	meq/l	mg/l	lbs/kbbi
CaCO3	0.00	0.00	0.00
CaSO4	40.81	2,778.00	973.00
BaSO4	0.00	0.00	0.00

Note:
 Since scale forming molecules can exist in solution, refer to the CaCO3 saturation index for CaCO3, or the solubilities for CaSO4 and BaSO4, and compare with the calculated amounts above to determine if precipitated scale may be possible.

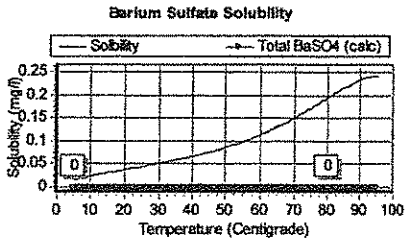
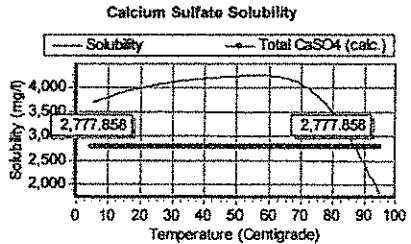
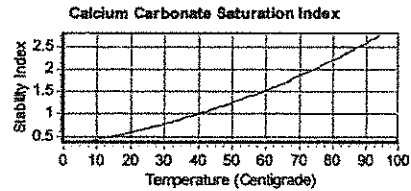
Conclusion:

Calcium Carbonate scaling index is positive above 5 degrees Centigrade.
 Calcium Sulfate scale is indicated. See appropriate chart for temperature ranges.
 Barium Sulfate scale is not indicated from 0 to 100 degrees Centigrade.

Remarks:

Fahrenheit Degrees 32 65 122 167 212
 (C X 1.8) + 32
 Centigrade Degrees 0 25 50 75 100

Scaling Indices vs. Temperature



Water Analysis Analysis #: 10011

Company: PRIMA EXPLORATION
 Field: PRIMA EXPLORATION
 Lease: COMBINED #3
 Location: BUFFALO CO., ND
 Description:
 Well:
 Sample Point:



JACAM Chemicals, L. L. C.

205 S. Broadway
 P.O. Box 96
 STERLING, KS 67579
 Email: solutions@jacam.com
 620-278-3355
 Fax 620-278-2112
 Web: www.jacam.com

Date: July 25, 2005

Attention: JESSE SMYLE

DISSOLVED SOLIDS

CATIONS	mg/l	meq/l
Sodium, Na (calc)	6,374.22	277.14
Calcium, Ca	782.20	38.92
Magnesium, Mg	688.28	56.42
Barium, Ba	0.45	0.01
Iron, Fe	69.43	3.73

ANIONS	mg/l	meq/l
Hydroxyl, OH		
Carbonate, CO3		
Bicarbonate, HCO3	571.27	9.35
Sulfate, SO4	1,709.75	35.04
Chloride, Cl	9,777.00	275.41
Sulfide, S	2.23	0.14

OTHER PROPERTIES

pH	7.04
Specific Gravity	1.007
Dissolved Oxygen, (mg/l)	
Dissolved Carbon Dioxide	30.92
Sulfide as H2S, (ppm)	4.94
Sample Temp:	979F. 40C.

Total Dissolved Solids (mg/l)	19,973
Total Ionic Strength	0.4133
Maximum CaSO4, (calc.)	2,435
Maximum BaSO4, (calc.)	1
Total Hardness	4,767.00 95.34

ESTIMATED MINERAL CONTENT AT SAMPLE TEMPERATURE

	meq/l	mg/l	lbs/kbbl
CaCO3	0.00	0.00	0.00
CaSO4	35.78	2,435.00	853.00
BaSO4	0.01	1.00	0.00

Note:
 Since scale forming molecules can exist in solution, refer to the CaCO3 saturation index for CaCO3, or the solubilities for CaSO4 and BaSO4, and compare with the calculated amounts above to determine if precipitated scale may be possible.

Conclusion:

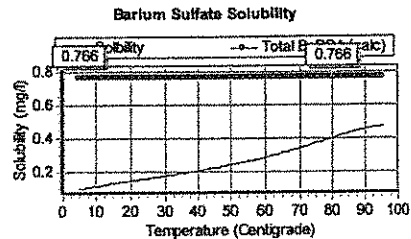
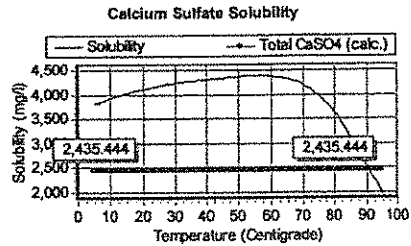
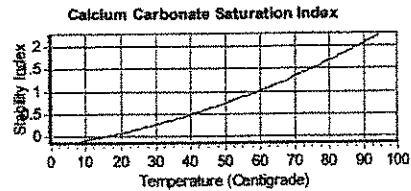
Calcium Carbonate scaling index is positive above 17 degrees Centigrade.
 Calcium Sulfate scale is indicated. See appropriate chart for temperature ranges.
 Barium Sulfate scale is indicated at all temperatures.

Remarks:

100% CBRRU

Fahrenheit Degrees	32	85	122	167	212
(C X 1.8) + 32					
Centigrade Degrees	0	25	50	75	100

Scaling indices vs. Temperature



Water Analysis Analysis #:10013

Company: PRIMA EXPLORATION
 Field: PRIMA EXPLORATION
 Lease: COMBINED #5
 Location: BUFFALO CO., SD
 Description:
 Well:
 Sample Point:



JACAM Chemicals, L. L. C.
 205 S. Broadway 820-278-3355
 P.O. Box 96 Fax 620-278-2112
 STERLING, KS 67579 Web: www.jacam.com
 Email: solutions@jacam.com

Date: July 25, 2005

Attention: JESSE SMYLE

DISSOLVED SOLIDS

CATIONS	mg/l	meq/l
Sodium, Na (calc)	6,083.73	264.51
Calcium, Ca	800.84	39.84
Magnesium, Mg	709.41	58.15
Barium, Ba	0.34	0.00
Iron, Fe	52.27	2.81

ANIONS	mg/l	meq/l
Hydroxyl, OH		
Carbonate, CO3		
Bicarbonate, HCO3	699.31	11.45
Sulfate, SO4	1,617.80	33.15
Chloride, Cl	9,321.00	262.56
Sulfide, S	1.68	0.11

OTHER PROPERTIES

pH	7.03
Specific Gravity	1.006
Dissolved Oxygen, (mg/l)	
Dissolved Carbon Dioxide	35.35
Sulfide as H2S, (ppm)	5.55
Sample Temp:	168F. 36C.

Total Dissolved Solids (mg/l)	19,285
Total Ionic Strength	0.4023
Maximum CaSO4, (calc.)	2,304
Maximum BaSO4, (calc.)	1
	mg/l meq/l
Total Hardness	4,899.50 97.99

ESTIMATED MINERAL CONTENT AT SAMPLE TEMPERATURE

	meq/l	mg/l	lbs/kbbf
CaCO3	0.00	0.00	0.00
CaSO4	33.85	2,304.00	807.00
BaSO4	0.00	1.00	0.00

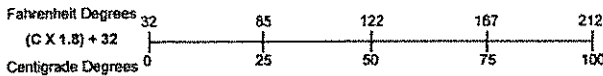
Note:
 Since scale forming molecules can exist in solution, refer to the CaCO3 saturation index for CaCO3, or the solubilities for CaSO4 and BaSO4, and compare with the calculated amounts above to determine if precipitated scale may be possible.

Conclusion:

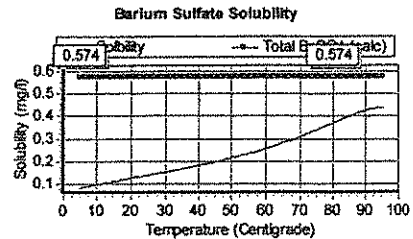
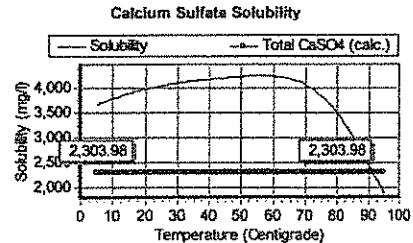
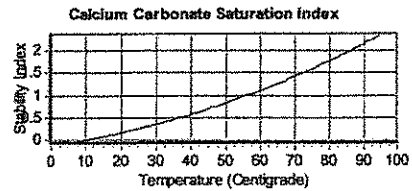
Calcium Carbonate scaling index is positive above 10 degrees Centigrade.
 Calcium Sulfate scale is indicated. See appropriate chart for temperature ranges.
 Barium Sulfate scale is indicated at all temperatures.

Remarks:

75% CBRRU
 5% TABLE MOUNTAIN
 20% BRRU SWD



Scaling Indices vs. Temperature



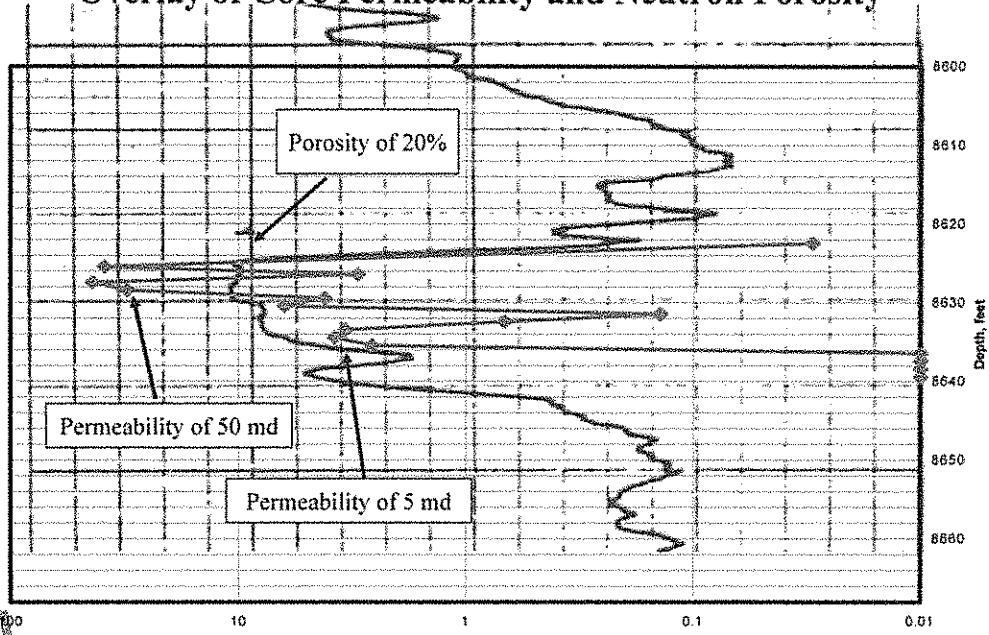
Central Buffalo Red River Unit Reservoir Description						
Location	Area (ac)	Thickness (ft)	Porosity (%)	Water Saturation (%)	Original Oil-In-Place (MSTB)	Well
S/2, Sec 28	320	14.1	19.3%	52.0%	2,809.1	Clarkson 14-28
S/2, Sec 29	320	11.6	19.1%	33.8%	3,027.1	Brown 43-29
E/2, Sec 30	320	11.7	19.9%	46.4%	2,272.7	Thune B 1-30
W/2, Sec 30	320	12.2	19.9%	52.4%	2,110.2	
E/2, Sec 31	320	14.2	19.7%	41.2%	3,123.1	Thune A-1
W/2, Sec 31	320	11.5	19.9%	46.1%	2,251.3	
All, Sec 32	640	14.4	19.3%	42.1%	6,384.6	Thomas B 1-R
W/2, Sec 33	320	13.6	19.2%	55.5%	2,378.5	
W/2, Sec 4	320	12.6	19.2%	40.0%	3,005.0	State 14-4
All, Sec 5	640	12.9	19.2%	33.6%	6,763.6	Thune 1, Thune 6-5
E/2, Sec 6	320	13.3	19.4%	42.4%	2,769.1	Series 8-6
W/2, Sec 6	320	13.9	19.9%	51.9%	2,309.9	
CBRUU Total	4,480				39,204.2	9 Wells



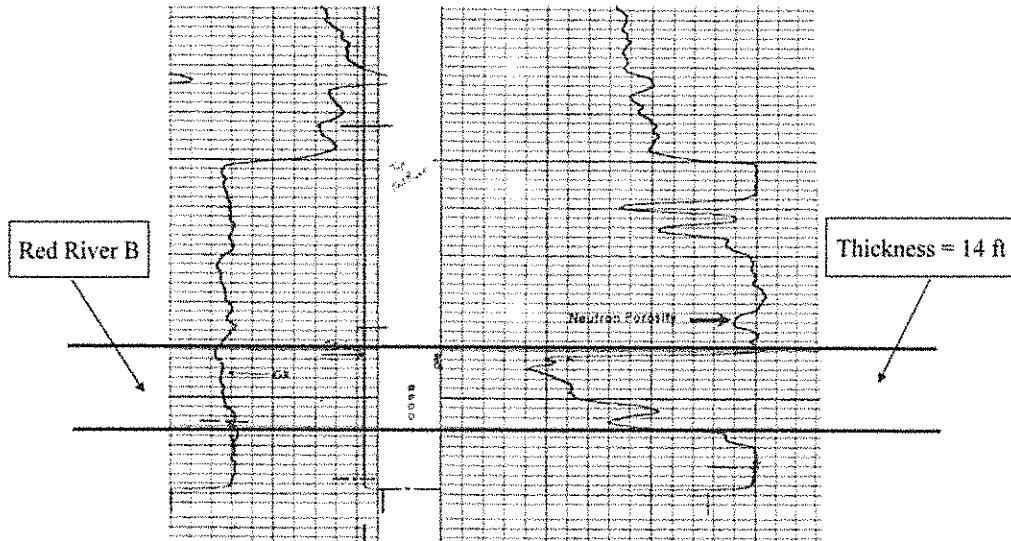
PRIMA EXPLORATION INC.

Thomas B #1

Overlay of Core Permeability and Neutron Porosity



Neutron Log From Thune #6-5



Mineral Owners

EXHIBIT "B"
 SCHEDULE SHOWING THE PERCENTAGE AND KIND OF OWNERSHIP OF OIL AND GAS INTERESTS
 CENTRAL BUFFALO RED RIVER UNIT AREA
 HARDING COUNTY, SOUTH DAKOTA

TRACT NO.	DESCRIPTION OF LAND	NUMBER OF ACRES	SERIAL NUMBER & EXPIRATION DATE OF LEASE	BASIC ROYALTY AND PERCENTAGE	LESSEE OF RECORD AND PERCENTAGE	OVERRIDING ROYALTY AND PERCENTAGE
-----------	---------------------	-----------------	--	------------------------------	---------------------------------	-----------------------------------

5.	T22N-R4E, B.H.M., Sec. 31: Lots 1, 2, 3, 4, E2W/2	317.84	HBP	Marjone Torpin (12.5% royalty)	12.5000000%	Prima Exploration, Inc.	34.70%	Blanche Marie Wilson	0.41667%
						Vegas Production Co.	34.70%	Virginia Francis Pletcher	0.41667%
						Petroro Corporation	25.00%	Naylor Fred Forman	0.41667%
						Gunlikson Petroleum, Inc.	5.60%	Sandra K. Bolyard	0.41667%
						TOTAL	100.0%	Vivian Forman	0.41666%
						James E. Moats	0.10417%		
						Donald R. Moats	0.10417%		
						Wanda Weese	0.10416%		
						Marian Reed	0.10416%		
						TOTAL	2.50%		

5.	Continued	317.84	HBP	Dorothy L. Thunem (12.5% royalty)	12.5000000%	Prima Exploration, Inc.	34.70%	Blanche Marie Wilson	0.41667%
						Vegas Production Co.	34.70%	Virginia Francis Pletcher	0.41667%
						Petroro Corporation	25.00%	Naylor Fred Forman	0.41667%
						Gunlikson Petroleum, Inc.	5.60%	Sandra K. Bolyard	0.41667%
						TOTAL	100.0%	Vivian Forman	0.41666%
						James E. Moats	0.10417%		
						Donald R. Moats	0.10417%		
						Wanda Weese	0.10416%		
						Marian Reed	0.10416%		
						TOTAL	2.50%		

5.	Continued	317.84	HBP	Betty J. Njos (12.5% royalty)	12.5000000%	Prima Exploration, Inc.	34.70%	Blanche Marie Wilson	0.41667%
						Vegas Production Co.	34.70%	Virginia Francis Pletcher	0.41667%
						Petroro Corporation	25.00%	Naylor Fred Forman	0.41667%
						Gunlikson Petroleum, Inc.	5.60%	Sandra K. Bolyard	0.41667%
						TOTAL	100.0%	Vivian Forman	0.41666%
						James E. Moats	0.10417%		
						Donald R. Moats	0.10417%		
						Wanda Weese	0.10416%		
						Marian Reed	0.10416%		
						TOTAL	2.50%		

5.	Continued	317.84	HBP	Judy K. McCann (12.5% royalty)	12.5000000%	Prima Exploration, Inc.	34.70%	Blanche Marie Wilson	0.41667%
						Vegas Production Co.	34.70%	Virginia Francis Pletcher	8/31/2005 0.41667%

42-64

TRACT NO.	DESCRIPTION OF LAND	NUMBER OF ACRES	SERIAL NUMBER & EXPIRATION DATE OF LEASE	BASIC ROYALTY AND PERCENTAGE	LESSEE OF RECORD AND PERCENTAGE	OVERRIDING ROYALTY AND PERCENTAGE			
			HBP	Gladys K. Kahrs (12.5% royalty)	12.5000000%	Prima Exploration, Inc. Vegas Production Co. Guntikson Petroleum, Inc. TOTAL	34.70% 34.70% 25.00% 100.0%	Blanche Marie Wilson Virginia Francis Pletcher Naylor Fred Forman Vivian Forman James E. Moats Donald R. Moats Wanda Weese Marian Reed TOTAL	0.41667% 0.41667% 0.41667% 0.41667% 0.10417% 0.10416% 0.10416% 0.10416% 2.50%
			HBP	Clara J. Flemmer (12.5% royalty)	12.5000000%	Prima Exploration, Inc. Vegas Production Co.	34.70% 34.70%	Blanche Marie Wilson Virginia Francis Pletcher	0.41667% 0.41667%
			HBP	Deborah Thomason (12.5% royalty)	3.1250000%	Prima Exploration, Inc. Vegas Production Co. Petroro Corporation Guntikson Petroleum, Inc. TOTAL	34.70% 34.70% 25.00% 5.60% 100.0%	Blanche Marie Wilson Virginia Francis Pletcher Naylor Fred Forman Sandra K. Bolyard Vivian Forman James E. Moats Donald R. Moats Wanda Weese Marian Reed TOTAL	0.41667% 0.41667% 0.41667% 0.41667% 0.41667% 0.10417% 0.10416% 0.10416% 0.10416% 2.50%
			HBP	Mildred Richardson (12.5% royalty)	3.1250000%	Prima Exploration, Inc. Vegas Production Co.	34.70% 34.70%	Blanche Marie Wilson Virginia Francis Pletcher	0.41667% 0.41667%

5. Continued

Central Buffalo Red River Unit Area

TRACT NO.	DESCRIPTION OF LAND	NUMBER OF ACRES	SERIAL NUMBER & EXPIRATION DATE OF LEASE	BASIC ROYALTY AND PERCENTAGE	LESSEE OF RECORD AND PERCENTAGE	OVERRIDING ROYALTY AND PERCENTAGE			
5.	Continued								
			HBP	Dennis W. Palczewski (12.5% royalty)	3.125000%	Prima Exploration, Inc. Vegas Production Co. Petroro Corporation Gunlikson Petroleum, Inc. TOTAL	34.70% 34.70% 25.00% 5.60% 100.0%	Blanche Marie Wilson Virginia Francis Pletcher Naylor Fred Forman Sandra K. Bolyard Vivian Forman James E. Moats Donald R. Moats Wanda Weese Marian Reed TOTAL	0.41667% 0.41667% 0.41667% 0.41667% 0.41666% 0.10417% 0.10417% 0.10416% 0.10416% 2.50%
			HBP	Dale R. Palczewski (12.5% royalty)	3.125000%	Prima Exploration, Inc. Vegas Production Co. Petroro Corporation Gunlikson Petroleum, Inc. TOTAL	34.70% 34.70% 25.00% 5.60% 100.0%	Blanche Marie Wilson Virginia Francis Pletcher Naylor Fred Forman Sandra K. Bolyard Vivian Forman James E. Moats Donald R. Moats Wanda Weese Marian Reed TOTAL	0.41667% 0.41667% 0.41667% 0.41667% 0.41666% 0.10417% 0.10417% 0.10416% 0.10416% 2.50%
			HBP	Timothy Glenn Brown (12.5% royalty)	4.16667%	Prima Exploration, Inc. Vegas Production Co. Petroro Corporation Gunlikson Petroleum, Inc. TOTAL	34.70% 34.70% 25.00% 5.60% 100.0%	Blanche Marie Wilson Virginia Francis Pletcher Naylor Fred Forman Sandra K. Bolyard Vivian Forman James E. Moats Donald R. Moats Wanda Weese Marian Reed TOTAL	0.41667% 0.41667% 0.41667% 0.41667% 0.41666% 0.10417% 0.10417% 0.10416% 0.10416% 2.50%
			HBP	Sharlet Rene Teigen (12.5% royalty)	4.16667%	Prima Exploration, Inc. Vegas Production Co. Petroro Corporation	34.70% 34.70% 25.00%	Blanche Marie Wilson Virginia Francis Pletcher Naylor Fred Forman	0.41667% 0.41667% 0.41667%

Central Buffalo Red River Unit Area

TRACT NO.	DESCRIPTION OF LAND	NUMBER OF ACRES	SERIAL NUMBER & EXPIRATION DATE OF LEASE	BASIC ROYALTY AND PERCENTAGE	LESSEE OF RECORD AND PERCENTAGE	OVERRIDING ROYALTY AND PERCENTAGE
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HBP	Debra Kay Brown	4.16667%	Prima Exploration, Inc.	34.70%	Blanche Marie Wilson	0.41667%
	(12.5% royalty)		Vegas Production Co.	34.70%	Virginia Francis Pletcher	0.41667%
	TOTAL	100.00%	Petroro Corporation	25.00%	Naylor Fred Forman	0.41667%
			Gunlikson Petroleum, Inc.	5.60%	Sandra K. Bolyard	0.41667%
			TOTAL	100.0%	Vivian Forman	0.41666%
					James E. Moats	0.10417%
					Donald R. Moats	0.10417%
					Wanda Weese	0.10416%
					Marian Reed	0.10416%
					TOTAL	2.50%

5. Continued

HBP	Marjorie Torpin	14.285714%	Prima Exploration, Inc.	34.70000%	Blanch Marie Wilson	0.41667%
	(12.5% royalty)		Vegas Production Co.	34.70000%	Virginia Francis Pletcher	0.41667%
			Petroro Corporation	25.00000%	Naylor Fred Forman	0.41667%
			Gunlikson Petroleum, Inc.	5.60000%	Sandra K. Bolyard	0.41667%
			TOTAL	100.00%	Vivian Forman	0.41666%
					James E. Moats	0.10417%
					Donald R. Moats	0.10417%
					Wanda Weese	0.10416%
					Marian Reed	0.10416%
					TOTAL	2.50%

HBP	Dorothy L. Thunem	14.285714%	Prima Exploration, Inc.	34.70000%	Blanch Marie Wilson	0.41667%
	(12.5% royalty)		Vegas Production Co.	34.70000%	Virginia Francis Pletcher	0.41667%
			Gunlikson Petroleum, Inc.	25.00000%	Naylor Fred Forman	0.41667%
			TOTAL	100.00%	Sandra K. Bolyard	0.41667%
					Vivian Forman	0.41666%
					James E. Moats	0.10417%
					Donald R. Moats	0.10417%
					Wanda Weese	0.10416%
					Marian Reed	0.10416%
					TOTAL	2.50%

Central Buffalo Red River Unit Area

HBP Betty J. Nips

14.285714%

Prima Exploration, Inc.

34.70000%

Blanch Marie Wilson

8/31/2004 1.667%

TRACT NO.	DESCRIPTION OF LAND	NUMBER OF ACRES	SERIAL NUMBER & EXPIRATION DATE OF LEASE	BASIC ROYALTY AND PERCENTAGE	LESSEE OF RECORD AND PERCENTAGE	OVERRIDING ROYALTY AND PERCENTAGE
			(12.5% royalty)			
HBP	Judy K. McCann (12.5% royalty)	14.285714%	Prima Exploration, Inc. Vegas Production Co. Petroro Corporation	34.7000% 34.7000% 25.0000%	Virginia Francis Pletcher Naylor Fred Forman Virginia Francis Pletcher	0.41667% 0.41667% 0.41667%
HBP	Gladys K. Kahrs (12.5% royalty)	14.285714%	Prima Exploration, Inc. Vegas Production Co. Petroro Corporation Gunlikson Petroleum, Inc.	34.7000% 34.7000% 25.0000% 5.6000%	Blanch Marie Wilson Virginia Francis Pletcher Naylor Fred Forman Sandra K. Bolyard	0.41667% 0.41667% 0.41667% 0.41667%
HBP	Clara J. Flemmer (12.5% royalty)	14.285714%	Prima Exploration, Inc. Vegas Production Co. Gunlikson Petroleum, Inc.	34.7000% 34.7000% 25.0000%	Blanch Marie Wilson Virginia Francis Pletcher Naylor Fred Forman	0.41667% 0.41667% 0.41667%
HBP	Deborah Thomason	3.571429%	Prima Exploration, Inc.	34.7000%	Blanch Marie Wilson	8/31/2005 41667%

6. Continued

Central Buffalo Red River Unit Area

TRACT NO.	DESCRIPTION OF LAND	NUMBER OF ACRES	SERIAL NUMBER & EXPIRATION DATE OF LEASE	BASIC ROYALTY AND PERCENTAGE	LESSEE OF RECORD AND PERCENTAGE	OVERRIDING ROYALTY AND PERCENTAGE
6.	Continued					
HBP	Mildred Richardson (12.5% royalty)	3.571429%		Prima Exploration, Inc. Vegas Production Co. Petroro Corporation Gunlikson Petroleum, Inc. TOTAL	34.7000% 34.7000% 25.0000% 5.6000% 100.00%	Blanch Marie Wilson Virginia Francis Pletcher Naylor Fred Forman Sandra K. Bolyard Vivian Forman James E. Moats Donald R. Moats Wanda Weese Marian Reed TOTAL
						0.41667% 0.41667% 0.41667% 0.41667% 0.41666% 0.10417% 0.10417% 0.10416% 0.10416% 2.50%
HBP	Dennis W. Palczewski (12.5% royalty)	3.571429%		Prima Exploration, Inc. Vegas Production Co. Petroro Corporation Gunlikson Petroleum, Inc. TOTAL	34.7000% 34.7000% 25.0000% 5.6000% 100.00%	Blanch Marie Wilson Virginia Francis Pletcher Naylor Fred Forman Sandra K. Bolyard Vivian Forman James E. Moats Donald R. Moats Wanda Weese Marian Reed TOTAL
						0.41667% 0.41667% 0.41667% 0.41667% 0.41666% 0.10417% 0.10417% 0.10416% 0.10416% 2.50%
HBP	Dale R. Palczewski (12.5% royalty)	3.571429%		Prima Exploration, Inc. Vegas Production Co. Petroro Corporation Gunlikson Petroleum, Inc. TOTAL	34.7000% 34.7000% 25.0000% 5.6000% 100.00%	Blanch Marie Wilson Virginia Francis Pletcher Naylor Fred Forman Sandra K. Bolyard Vivian Forman James E. Moats Donald R. Moats Wanda Weese Marian Reed TOTAL
						0.41667% 0.41667% 0.41667% 0.41667% 0.41666% 0.10417% 0.10417% 0.10416% 0.10416% 2.50%

TRACT NO.	DESCRIPTION OF LAND	NUMBER OF ACRES	SERIAL NUMBER & EXPIRATION DATE OF LEASE	BASIC ROYALTY AND PERCENTAGE	LESSEE OF RECORD AND PERCENTAGE	OVERRIDING ROYALTY AND PERCENTAGE		
7.	T22N-R4E, B.H.M., Sec. 32: W/2NW/4, SW/4	240.00	HBP	Charles Yull (12.5% royalty)	50.00%	Prima Exploration, Inc. Vegas Production Co. Petroro Corporation Gunlikson Petroleum, Inc. TOTAL	Blanch Marie Wilson Virginia Francis Pletcher Naylor Fred Farman Sandra K. Bolyard Vivian Forman James E. Moats Donald R. Moats Wanda Weese Marlan Reed TOTAL	0.41667% 0.41667% 0.41667% 0.41667% 0.41666% 0.10417% 0.10417% 0.10416% 0.10416% 2.50%
			HBP	Helmerich & Payne, Inc. (12.5% royalty)	37.50000%	Prima Exploration, Inc. Vegas Production Co. Petroro Corporation Gunlikson Petroleum, Inc. TOTAL	None	
			HBP	Gems, LTD (12.5% royalty)	4.16670%	Prima Exploration, Inc. Vegas Production Co. Petroro Corporation Gunlikson Petroleum, Inc. TOTAL	None	
			HBP	Forest, LTD (12.5% royalty)	2.08330%	Prima Exploration, Inc. Vegas Production Co. Petroro Corporation Gunlikson Petroleum, Inc. TOTAL	None	
			HBP	Stanley H. Singer Oil Company, LTD (12.5% royalty)	5.62500%	Prima Exploration, Inc. Vegas Production Co. Petroro Corporation Gunlikson Petroleum, Inc. TOTAL	None	
			HBP	Flavian Oil Company (12.5% royalty)	0.62500%	Prima Exploration, Inc. Vegas Production Co.	None	8/31/2005

Central Buffalo Red River Unit Area

TRACT NO.	DESCRIPTION OF LAND	NUMBER OF ACRES	SERIAL NUMBER & EXPIRATION DATE OF LEASE	BASIC ROYALTY AND PERCENTAGE	LESSEE OF RECORD AND PERCENTAGE	OVERRIDING ROYALTY AND PERCENTAGE
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TOTAL 100.00%
 Petroco Corporation
 Gunlikson Petroleum, Inc.
 TOTAL 5.60000%
 100.00%

7a. T22N-R4E, B.H.M.
 Sec. 32: E22NW/4 80.00

HBP Marjorie Torph
 (12.5% royalty)

14.285714%

Prima Exploration, Inc.
 Vegas Production Co.
 Petroco Corporation
 Gunlikson Petroleum, Inc.
 TOTAL 34.70000%
 25.00000%
 5.60000%
 100.00%

Blanch Marie Wilson 0.41667%
 Virginia Francis Pletcher 0.41667%
 Naylor Fred Forman 0.41667%
 Sandra K. Bolyard 0.41667%
 Vivian Forman 0.41666%
 James E. Moats 0.10417%
 Donald R. Moats 0.10417%
 Wanda Weese 0.10416%
 Marian Reed 0.10416%
 TOTAL 2.50%

HBP Dorothy L. Thunem
 (12.5% royalty)

14.285714%

Prima Exploration, Inc.
 Vegas Production Co.
 Petroco Corporation
 Gunlikson Petroleum, Inc.
 TOTAL 34.70000%
 25.00000%
 5.60000%
 100.00%

Blanch Marie Wilson 0.41667%
 Virginia Francis Pletcher 0.41667%
 Naylor Fred Forman 0.41667%
 Sandra K. Bolyard 0.41667%
 Vivian Forman 0.41666%
 James E. Moats 0.10417%
 Donald R. Moats 0.10417%
 Wanda Weese 0.10416%
 Marian Reed 0.10416%
 TOTAL 2.50%

HBP Betty J. Njos
 (12.5% royalty)

14.285714%

Prima Exploration, Inc.
 Vegas Production Co.
 Petroco Corporation
 Gunlikson Petroleum, Inc.
 TOTAL 34.70000%
 25.00000%
 5.60000%
 100.00%

Blanch Marie Wilson 0.41667%
 Virginia Francis Pletcher 0.41667%
 Naylor Fred Forman 0.41667%
 Sandra K. Bolyard 0.41667%
 Vivian Forman 0.41666%
 James E. Moats 0.10417%
 Donald R. Moats 0.10417%
 Wanda Weese 0.10416%
 Marian Reed 0.10416%
 TOTAL 2.50%

HBP Judy K. McCann
 (12.5% royalty)

14.285714%

TRACT NO.	DESCRIPTION OF LAND	SERIAL NUMBER OF ACRES	DATE OF EXPIRATION	BASIC ROYALTY AND PERCENTAGE	LESSEE OF RECORD AND PERCENTAGE	OVERRIDING ROYALTY AND PERCENTAGE
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7a. Continued

HBP	Gladys K. Kahrs (12.5% royalty)	14.285714%	Prima Exploration, Inc. Vegas Production Co. Petroro Corporation Gunlikson Petroleum, Inc. TOTAL	34.70000% 34.70000% 25.00000% 5.60000% 100.000%	Blanch Marie Wilson Virginia Francis Pletcher Naylor Fred Forman Sandra K. Bolyard Vivian Forman James E. Moats Donald R. Moats Wanda Weese Marian Reed TOTAL	0.41667% 0.41667% 0.41667% 0.41667% 0.41666% 0.10417% 0.10417% 0.10416% 0.10416% 2.50%
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HBP	Clara J. Flemmer (12.5% royalty)	14.285714%	Prima Exploration, Inc. Vegas Production Co. Petroro Corporation Gunlikson Petroleum, Inc. TOTAL	34.70000% 34.70000% 25.00000% 5.60000% 100.000%	Blanch Marie Wilson Virginia Francis Pletcher Naylor Fred Forman Sandra K. Bolyard Vivian Forman James E. Moats Donald R. Moats Wanda Weese Marian Reed TOTAL	0.41667% 0.41667% 0.41667% 0.41667% 0.41666% 0.10417% 0.10417% 0.10416% 0.10416% 2.50%
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HBP	Deborah Thomason (12.5% royalty)	3.571429%	Prima Exploration, Inc. Vegas Production Co. Petroro Corporation Gunlikson Petroleum, Inc. TOTAL	34.70000% 34.70000% 25.00000% 5.60000% 100.000%	Blanch Marie Wilson Virginia Francis Pletcher Naylor Fred Forman Sandra K. Bolyard Vivian Forman James E. Moats Donald R. Moats Wanda Weese Marian Reed TOTAL	0.41667% 0.41667% 0.41667% 0.41667% 0.41666% 0.10417% 0.10417% 0.10416% 0.10416% 2.50%
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HBP	Mildred Richardson (12.5% royalty)	3.571429%	Prima Exploration, Inc. Vegas Production Co. Petroro Corporation Gunlikson Petroleum, Inc. TOTAL	34.70000% 34.70000% 25.00000% 5.60000% 100.000%	Blanch Marie Wilson Virginia Francis Pletcher Naylor Fred Forman Sandra K. Bolyard Vivian Forman James E. Moats Donald R. Moats Wanda Weese TOTAL	0.41667% 0.41667% 0.41667% 0.41667% 0.41666% 0.10417% 0.10417% 0.10416% 2.50%
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TRACT NO.	DESCRIPTION OF LAND	NUMBER OF ACRES	SERIAL NUMBER & EXPIRATION DATE OF LEASE	BASIC ROYALTY AND PERCENTAGE	LESSEE OF RECORD AND PERCENTAGE	OVERRIDING ROYALTY AND PERCENTAGE
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7a. Continued

HBP	Dennis W. Palczewski (12.5% royalty)	3,571.429%	Prima Exploration, Inc. Vegas Production Co. Petroro Corporation Gunlikson Petroleum, Inc. TOTAL	34.70000% 34.70000% 25.00000% 5.60000% 100.000%	Blanch Marie Wilson Virginia Francis Pletcher Naylor Fred Forman Sandra K. Bolyard Vivian Forman James E. Moats Donald R. Moats Wanda Weese Marian Reed TOTAL	0.41667% 0.41667% 0.41667% 0.41667% 0.41666% 0.10417% 0.10417% 0.10416% 0.10416% 2.50%
HBP	Date R. Palczewski (12.5% royalty) TOTAL	3,571.429% 100.00%	Prima Exploration, Inc. Vegas Production Co. Petroro Corporation Gunlikson Petroleum, Inc. TOTAL	34.70000% 34.70000% 25.00000% 5.60000% 100.00%	Blanch Marie Wilson Virginia Francis Pletcher Naylor Fred Forman Sandra K. Bolyard Vivian Forman James E. Moats Donald R. Moats Wanda Weese Marian Reed TOTAL	0.41667% 0.41667% 0.41667% 0.41667% 0.41666% 0.10417% 0.10417% 0.10416% 0.10416% 2.50%

8. T22N-R4E, B.H.M.
Sec. 32: SW/4SE/4

40.00 HBP Charles Yull
(12.5% royalty)

50.00000% Prima Exploration, Inc.
Vegas Production Co.
Petroro Corporation
Gunlikson Petroleum, Inc.
TOTAL

34.70000%	Blanch Marie Wilson	0.41667%
34.70000%	Virginia Francis Pletcher	0.41667%
25.00000%	Naylor Fred Forman	0.41667%
5.60000%	Sandra K. Bolyard	0.41667%
100.000%	Vivian Forman	0.41666%
	James E. Moats	0.10417%
	Donald R. Moats	0.10417%
	Wanda Weese	0.10416%
	Marian Reed	0.10416%
	TOTAL	2.50%

8. Contiguando Red River Unit Area

4-19-2007

Helmerich & Payne, Inc.

31500000%

Prima Exploration, Inc.

34.70000%

None

8/31/2005

TRACT NO.	DESCRIPTION OF LAND	NUMBER OF ACRES	SERIAL NUMBER & EXPIRATION DATE OF LEASE	BASIC ROYALTY AND PERCENTAGE		LESSEE OF RECORD AND PERCENTAGE		OVERRIDING ROYALTY AND PERCENTAGE	
				PERCENTAGE	PERCENTAGE	PERCENTAGE	PERCENTAGE	PERCENTAGE	PERCENTAGE
8a.	<u>T22N-R4E, B.H.M.</u> Sec. 32: SE/4SE/4	40.00	7-10-2007	J. Clarkson Oil, Inc. (16.667% royalty)	100.00%	Prima Exploration, Inc. Vegas Production Co. Petroro Corporation Gunlikson Petroleum, Inc. TOTAL	34.7000% 34.7000% 25.0000% 5.6000% 100.00%	None	
			HBP	Prince Minerals II, Ltd. (12.5% royalty) TOTAL	3.12500% 100.00%	Prima Exploration, Inc. Vegas Production Co. Petroro Corporation Gunlikson Petroleum, Inc. TOTAL	34.7000% 34.7000% 25.0000% 5.6000% 100.00%	None	
8b.	<u>T22N-R4E, B.H.M.</u> Sec. 32: NW/4SE/4, SW/4NE/4	80.00		Marjorie Torpin (12.5% royalty)	12.50000%	Prima Exploration, Inc. Vegas Production Co. Petroro Corporation Gunlikson Petroleum, Inc. TOTAL	34.7000% 34.7000% 25.0000% 5.6000% 100.00%	Blanch Marie Wilson Virginia Francis Pletcher Naylor Fred Forman Sandra K. Bolyard Vivian Forman James E. Moats Donald R. Moats Wanda Weese Marian Reed TOTAL	0.41667% 0.41667% 0.41667% 0.41667% 0.41666% 0.10417% 0.10417% 0.10416% 0.10416% 2.50%
			HBP	Dorothy L. Thunem (12.5% royalty)	12.50000%	Prima Exploration, Inc. Vegas Production Co. Petroro Corporation Gunlikson Petroleum, Inc.	34.7000% 34.7000% 25.0000% 5.6000%	Blanch Marie Wilson Virginia Francis Pletcher Naylor Fred Forman Sandra K. Bolyard	0.41667% 0.41667% 0.41667% 8/31/2005 41667%

Continued
Central Buffalo Red River Unit Area

TRACT NO.	DESCRIPTION OF LAND	NUMBER OF ACRES	SERIAL NUMBER & EXPIRATION DATE OF LEASE	BASIC ROYALTY AND PERCENTAGE	LESSEE OF RECORD AND PERCENTAGE	OVERRIDING ROYALTY AND PERCENTAGE	
				TOTAL	100.00%	Vivian Forman James E. Moats Donald R. Moats Wanda Weese Marian Reed TOTAL	0.41666% 0.10417% 0.10417% 0.10416% 0.10416% 2.50%
HBP	Betty J. Njos (12.5% royalty)	12.50000%					
HBP	Judy K. McCann (12.5% royalty)	12.50000%		Prima Exploration, Inc. Vegas Production Co. Petroro Corporation Gunlikson Petroleum, Inc. TOTAL	34.7000% 34.7000% 25.0000% 5.6000% 100.00%	Blanch Marie Wilson Virginia Francis Pletcher Naylor Fred Forman Sandra K. Bolyard Vivian Forman James E. Moats Donald R. Moats Wanda Weese Marian Reed TOTAL	0.41667% 0.41667% 0.41667% 0.41667% 0.41666% 0.10417% 0.10417% 0.10416% 0.10416% 2.50%
HBP	Gladys K. Kahrs (12.5% royalty)	12.50000%		Prima Exploration, Inc. Vegas Production Co. Petroro Corporation Gunlikson Petroleum, Inc. TOTAL	34.7000% 34.7000% 25.0000% 5.6000% 100.00%	Blanch Marie Wilson Virginia Francis Pletcher Naylor Fred Forman Sandra K. Bolyard Vivian Forman James E. Moats Donald R. Moats Wanda Weese Marian Reed TOTAL	0.41667% 0.41667% 0.41667% 0.41667% 0.41666% 0.10417% 0.10417% 0.10416% 0.10416% 2.50%
HBP	Clara J. Flemmer (12.5% royalty)	12.50000%		Prima Exploration, Inc. Vegas Production Co. Petroro Corporation Gunlikson Petroleum, Inc. TOTAL	34.7000% 34.7000% 25.0000% 5.6000% 100.00%	Blanch Marie Wilson Virginia Francis Pletcher Naylor Fred Forman Sandra K. Bolyard Vivian Forman James E. Moats Donald R. Moats	0.41667% 0.41667% 0.41667% 0.41667% 0.41666% 0.10417% 0.10417%

8b. Continued

Central Buffalo Red River Unit Area

TRACT NO.	DESCRIPTION OF LAND	NUMBER OF ACRES	SERIAL NUMBER & EXPIRATION DATE OF LEASE	BASIC ROYALTY AND PERCENTAGE	LESSEE OF RECORD AND PERCENTAGE	OVERRIDING ROYALTY AND PERCENTAGE
HBP	Timothy Glenn Brown (12.5% royalty)	4.166700%	Prima Exploration, Inc. Vegas Production Co. Petroro Corporation Gunlikson Petroleum, Inc. TOTAL	34.7000% 34.7000% 25.0000% 5.6000% 100.00%	Blanch Marie Wilson Virginia Francis Pletcher Naylor Fred Forman Sandra K. Bolyard Vivian Forman James E. Moats Donald R. Moats Wanda Weese Marian Reed TOTAL	0.41667% 0.41667% 0.41667% 0.41667% 0.41666% 0.10417% 0.10417% 0.10416% 0.10416% 2.50%
HBP	Sharlet Rene Teigen (12.5% royalty)	4.166700%	Prima Exploration, Inc. Vegas Production Co. Petroro Corporation Gunlikson Petroleum, Inc. TOTAL	34.7000% 34.7000% 25.0000% 5.6000% 100.00%	Blanch Marie Wilson Virginia Francis Pletcher Naylor Fred Forman Sandra K. Bolyard Vivian Forman James E. Moats Donald R. Moats Wanda Weese Marian Reed TOTAL	0.41667% 0.41667% 0.41667% 0.41667% 0.41666% 0.10417% 0.10417% 0.10416% 0.10416% 2.50%
HBP	Debra Kay Brown (12.5% royalty)	4.166700%	Prima Exploration, Inc. Vegas Production Co. Petroro Corporation Gunlikson Petroleum, Inc. TOTAL	34.7000% 34.7000% 25.0000% 5.6000% 100.00%	Blanch Marie Wilson Virginia Francis Pletcher Naylor Fred Forman Sandra K. Bolyard Vivian Forman James E. Moats Donald R. Moats Wanda Weese Marian Reed TOTAL	0.41667% 0.41667% 0.41667% 0.41667% 0.41666% 0.10417% 0.10417% 0.10416% 0.10416% 2.50%
HBP	Deborah Thomason (12.5% royalty)	3.125000%	Prima Exploration, Inc. Vegas Production Co. Petroro Corporation Gunlikson Petroleum, Inc. TOTAL	34.7000% 34.7000% 25.0000% 5.6000% 100.00%	Blanch Marie Wilson Virginia Francis Pletcher Naylor Fred Forman Sandra K. Bolyard Vivian Forman James E. Moats Donald R. Moats TOTAL	0.41667% 0.41667% 0.41667% 0.41667% 0.41666% 0.10417% 0.10417% 2.50%

8b. Continued

TRACT NO.	DESCRIPTION OF LAND	NUMBER OF ACRES	SERIAL NUMBER & EXPIRATION DATE OF LEASE	BASIC ROYALTY AND PERCENTAGE		LESSEE OF RECORD AND PERCENTAGE		OVERRIDING ROYALTY AND PERCENTAGE	
				PERCENTAGE	PERCENTAGE	PERCENTAGE	PERCENTAGE	PERCENTAGE	PERCENTAGE

HBP Mildred Richardson
(12.5% royalty)

3.125000% Prima Exploration, Inc.
Vegas Production Co.
Petroro Corporation
Gunlikson Petroleum, Inc.
TOTAL

34.7000% Blanch Marie Wilson
34.7000% Virginia Francis Pletcher
25.0000% Naylor Fred Forman
5.5000% Sandra K. Bolyard
100.00% Vivian Forman
James E. Moats
Donald R. Moats
Wanda Weese
Marian Reed
TOTAL

0.41667%
0.41667%
0.41667%
0.41667%
0.41666%
0.10417%
0.10417%
0.10416%
0.10416%
2.50%

HBP Dennis W. Palczewski
(12.5% royalty)

3.125000% Prima Exploration, Inc.
Vegas Production Co.
Petroro Corporation
Gunlikson Petroleum, Inc.
TOTAL

34.7000% Blanch Marie Wilson
34.7000% Virginia Francis Pletcher
25.0000% Naylor Fred Forman
5.5000% Sandra K. Bolyard
100.00% Vivian Forman
James E. Moats
Donald R. Moats
Wanda Weese
Marian Reed
TOTAL

0.41667%
0.41667%
0.41667%
0.41667%
0.41666%
0.10417%
0.10417%
0.10416%
0.10416%
2.50%

HBP Dale R. Palczewski
(12.5% royalty)
TOTAL

3.125000% Prima Exploration, Inc.
Vegas Production Co.
Petroro Corporation
Gunlikson Petroleum, Inc.
TOTAL

34.7000% Blanch Marie Wilson
34.7000% Virginia Francis Pletcher
25.0000% Naylor Fred Forman
5.5000% Sandra K. Bolyard
100.00% Vivian Forman

0.41667%
0.41667%
0.41667%
0.41667%
0.41666%

8b. Continued

James E. Moats 0.10417%
Donald R. Moats 0.10417%
Wanda Weese 0.10416%
Marian Reed 0.10416%
TOTAL 2.50%

8c. T22N-R4E, B.H.M.
Sec. 32: NE/4SE/4, SE/4NE/4,
N/2NE/4

160.00 1-31-2005 Marjorie Torpin
(14.0% royalty)

12.500000% Prima Exploration, Inc.
Vegas Production Co.
Petroro Corporation
Gunlikson Petroleum, Inc.
TOTAL

34.7000%
34.7000%
25.0000%
5.5000%
100.00%

None

8/31/2005

Central Buffalo Red River Unit Area

TRACT NO.	DESCRIPTION OF LAND	NUMBER OF ACRES	SERIAL NUMBER & EXPIRATION DATE OF LEASE	BASIC ROYALTY AND PERCENTAGE	LESSEE OF RECORD AND PERCENTAGE		OVERRIDING ROYALTY AND PERCENTAGE			
2-1-2005	Dorothy L. Thurnem (14.0% royalty)	12.500000%	Prima Exploration, Inc.	34.7000%	None					
									Vegas Production Co.	34.7000%
									Petoro Corporation	25.0000%
									Gunlikson Petroleum, Inc.	5.6000%
TOTAL	100.00%									
1-27-2005	Betty J. Njos (16.667% royalty)	12.500000%	Prima Exploration, Inc.	34.7000%	None					
									TOTAL	100.00%
1-27-2005	Judy K. McCann (16.667% royalty)	12.500000%	Prima Exploration, Inc.	34.7000%	None					
									Vegas Production Co.	34.7000%
									Petoro Corporation	25.0000%
									Gunlikson Petroleum, Inc.	5.6000%
TOTAL	100.00%									
1-31-2005	Gladys K. Kahrs (14.0% royalty)	12.500000%	Prima Exploration, Inc.	34.7000%	None					
									Vegas Production Co.	34.7000%
									Petoro Corporation	25.0000%
									Gunlikson Petroleum, Inc.	5.6000%
TOTAL	100.00%									
1-31-2005	Clara J. Flemmer (14.0% royalty)	12.500000%	Prima Exploration, Inc.	34.7000%	None					
									Vegas Production Co.	34.7000%
									Petoro Corporation	25.0000%
									Gunlikson Petroleum, Inc.	5.6000%
TOTAL	100.00%									
3-23-2005	Timothy Glenn Brown (14.0% royalty)	4.166700%	Prima Exploration, Inc.	34.7000%	None					
									Vegas Production Co.	34.7000%
									Petoro Corporation	25.0000%
									Gunlikson Petroleum, Inc.	5.6000%
TOTAL	100.00%									
1-31-2005	Sharlet Rene Teigen (14.0% royalty)	4.166700%	Prima Exploration, Inc.	34.7000%	None					
									Vegas Production Co.	34.7000%
									Petoro Corporation	25.0000%
									Gunlikson Petroleum, Inc.	5.6000%
TOTAL	100.00%									
1-31-2005	Debra Kay Brown (14.0% royalty)	4.166700%	Prima Exploration, Inc.	34.7000%	None					
									Vegas Production Co.	34.7000%
									Petoro Corporation	25.0000%
									Gunlikson Petroleum, Inc.	5.6000%
TOTAL	100.00%									

8c. Continued

Central Buffalo Red River Unit Area

8/31/2005

TRACT NO.	DESCRIPTION OF LAND	NUMBER OF ACRES	SERIAL NUMBER & EXPIRATION DATE OF LEASE	BASIC ROYALTY AND PERCENTAGE	LESSEE OF RECORD AND PERCENTAGE	OVERRIDING ROYALTY AND PERCENTAGE	
11.	T21N-R4E B.H.M. Sec. 5: Lot 2, S2NE/4	119.94	HBP	Margorie Torpin (12.5% royalty)	14.285714% Prima Exploration, Inc. Vegas Production Co. Petroro Corporation Gunlikson Petroleum, Inc. TOTAL	34.7000% Blanch Marie Wilson Virginia Francis Pletcher Naylor Fred Forman Sandra K. Bolyard Vivian Forman James E. Moats Donald R. Moats Wanda Weese Marian Reed TOTAL	0.41667% 0.41667% 0.41667% 0.41667% 0.41667% 0.41667% 0.10417% 0.10417% 0.10416% 0.10416% 2.50%
			HBP	Dorothy L. Thunem (12.5% royalty)	14.285714% Prima Exploration, Inc. Vegas Production Co. Petroro Corporation Gunlikson Petroleum, Inc. TOTAL	34.7000% Blanch Marie Wilson Virginia Francis Pletcher Naylor Fred Forman Sandra K. Bolyard Vivian Forman James E. Moats Donald R. Moats Wanda Weese TOTAL	0.41667% 0.41667% 0.41667% 0.41667% 0.41667% 0.10417% 0.10417% 0.10416% 0.10416% 8/31/2009 0.416%
			1-31-2005	Deborah Thomason (14.0% royalty)	3.125000% Prima Exploration, Inc. Vegas Production Co. Gunlikson Petroleum, Inc. TOTAL	34.7000% None	
			1-31-2005	Mildred Richardson (14.0% royalty)	3.125000% Prima Exploration, Inc. Vegas Production Co. Petroro Corporation Gunlikson Petroleum, Inc. TOTAL	34.7000% None	
			1-31-2005	Dennis W. Palczewski (14.0% royalty)	3.125000% Prima Exploration, Inc. Vegas Production Co. Petroro Corporation Gunlikson Petroleum, Inc. TOTAL	34.7000% None	
			1-31-2005	Dale R. Palczewski (14.0% royalty)	3.125000% Prima Exploration, Inc. Vegas Production Co. Petroro Corporation Gunlikson Petroleum, Inc. TOTAL	34.7000% None	
				TOTAL	100.00%		

TRACT NO	DESCRIPTION OF LAND	SERIAL NUMBER OF ACRES	EXPIRATION DATE OF LEASE	BASIC ROYALTY AND PERCENTAGE	LESSEE OF RECORD AND PERCENTAGE	OVERRIDING ROYALTY AND PERCENTAGE
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HBP	Betty J. Njos (12.5% royalty)	14.285714%	Prima Exploration, Inc. Vegas Production Co. Petroco Corporation	34.70000% 34.70000% 25.00000%	Bianch Marie Wilson Virginia Francis Pletcher Naylor Fred Forman Sandra K. Bolyard	0.41667% 0.41667% 0.41667% 0.41667%
					Marian Reed TOTAL	0.10416% 2.50%

HBP	Judy K. McCann (12.5% royalty)	14.285714%	Prima Exploration, Inc. Vegas Production Co. Petroco Corporation Gunlikson Petroleum, Inc. TOTAL	34.70000% 34.70000% 25.00000% 5.60000% 100.000%	Bianch Marie Wilson Virginia Francis Pletcher Naylor Fred Forman Sandra K. Bolyard Vivian Forman James E. Moats Donald R. Moats Wanda Weese Marian Reed TOTAL	0.41667% 0.41667% 0.41667% 0.41667% 0.41666% 0.10417% 0.10417% 0.10416% 0.10416% 2.50%
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HBP	Gladys K. Kahrs (12.5% royalty)	14.285714%	Prima Exploration, Inc. Vegas Production Co. Petroco Corporation Gunlikson Petroleum, Inc. TOTAL	34.70000% 34.70000% 25.00000% 5.60000% 100.000%	Bianch Marie Wilson Virginia Francis Pletcher Naylor Fred Forman Sandra K. Bolyard Vivian Forman James E. Moats Donald R. Moats Wanda Weese Marian Reed TOTAL	0.41667% 0.41667% 0.41667% 0.41667% 0.41666% 0.10417% 0.10417% 0.10416% 0.10416% 2.50%
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HBP	Clara J. Flemmer (12.5% royalty)	14.285714%	Prima Exploration, Inc. Vegas Production Co. Petroco Corporation Gunlikson Petroleum, Inc. TOTAL	34.70000% 34.70000% 25.00000% 5.60000% 100.000%	Bianch Marie Wilson Virginia Francis Pletcher Naylor Fred Forman Sandra K. Bolyard Vivian Forman James E. Moats Donald R. Moats Wanda Weese TOTAL	0.41667% 0.41667% 0.41667% 0.41667% 0.41666% 0.10417% 0.10417% 0.10416% 2.50%
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TRACT NO.	DESCRIPTION OF LAND	NUMBER OF ACRES	SERIAL NUMBER & EXPIRATION DATE OF LEASE	BASIC ROYALTY AND PERCENTAGE	LESSEE OF RECORD AND PERCENTAGE	OVERRIDING ROYALTY AND PERCENTAGE
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11. Continued

HBP	Deborah Thomason (12.5% royalty)	3.571429%	Prima Exploration, Inc. Vegas Production Co. Petroro Corporation Gunlikson Petroleum, Inc. TOTAL	34.7000% 34.7000% 25.0000% 5.6000% 100.00%	Blanch Marie Wilson Virginia Francis Pletcher Naylor Fred Forman Sandra K. Bolyard Vivian Forman James E. Moats Donald R. Moats Wanda Weese Marian Reed TOTAL	0.41667% 0.41667% 0.41667% 0.41667% 0.41666% 0.10417% 0.10417% 0.10416% 0.10416% 2.50%
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HBP	Mildred Richardson (12.5% royalty)	3.571429%	Prima Exploration, Inc. Vegas Production Co. Petroro Corporation Gunlikson Petroleum, Inc. TOTAL	34.7000% 34.7000% 25.0000% 5.6000% 100.00%	Blanch Marie Wilson Virginia Francis Pletcher Naylor Fred Forman Sandra K. Bolyard Vivian Forman James E. Moats Donald R. Moats Wanda Weese Marian Reed TOTAL	0.41667% 0.41667% 0.41667% 0.41667% 0.41666% 0.10417% 0.10417% 0.10416% 0.10416% 2.50%
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HBP	Dennis W. Palczewski (12.5% royalty)	3.571429%	Prima Exploration, Inc. Vegas Production Co. Petroro Corporation Gunlikson Petroleum, Inc. TOTAL	34.7000% 34.7000% 25.0000% 5.6000% 100.00%	Blanch Marie Wilson Virginia Francis Pletcher Naylor Fred Forman Sandra K. Bolyard Vivian Forman James E. Moats Donald R. Moats Wanda Weese Marian Reed TOTAL	0.41667% 0.41667% 0.41667% 0.41667% 0.41666% 0.10417% 0.10417% 0.10416% 0.10416% 2.50%
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HBP	Dale R. Palczewski (12.5% royalty)	3.571429%	Prima Exploration, Inc. Vegas Production Co. Petroro Corporation Gunlikson Petroleum, Inc. TOTAL	34.7000% 34.7000% 25.0000% 5.6000% 100.00%	Blanch Marie Wilson Virginia Francis Pletcher Naylor Fred Forman Sandra K. Bolyard Vivian Forman James E. Moats Donald R. Moats	0.41667% 0.41667% 0.41667% 0.41667% 0.41666% 0.10417% 0.10417%
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TRACT NO.	DESCRIPTION OF LAND	NUMBER OF ACRES	SERIAL NUMBER & EXPIRATION DATE OF LEASE	BASIC ROYALTY AND PERCENTAGE	LESSEE OF RECORD AND PERCENTAGE	OVERRIDING ROYALTY AND PERCENTAGE
11.	Continued					
11a.	T21N-R4E, B.H.M. Sec. 5: Lot 1	39.95	HBP J. Clarkson Oil, Inc. (12.5% royalty)	100.00%	Prima Exploration, Inc. Vegas Production Co. Petroro Corporation Gunlikson Petroleum, Inc. TOTAL	None Marian Reed TOTAL
						0.10416% 2.50%
12.	T21N-R4E, B.H.M. Sec. 5: Lots 3, 4, SE/4NW/4	119.83	HBP Marjorie Torpin (12.5% royalty)	14.285714%	Prima Exploration, Inc. Vegas Production Co. Petroro Corporation Gunlikson Petroleum, Inc. TOTAL	Blanch Marie Wilson Virginia Francis Pletcher Naylor Fred Forman Sandra K. Bolyard Vivian Forman James E. Moats Donald R. Moats Wanda Weese Marian Reed TOTAL
						0.41667% 0.41667% 0.41667% 0.41667% 0.41666% 0.10417% 0.10417% 0.10416% 0.10416% 2.50%
			HBP Dorothy L. Thunen (12.5% royalty)	14.285714%	Prima Exploration, Inc. Vegas Production Co. Petroro Corporation Gunlikson Petroleum, Inc. TOTAL	Blanch Marie Wilson Virginia Francis Pletcher Naylor Fred Forman Sandra K. Bolyard Vivian Forman James E. Moats Donald R. Moats Wanda Weese Marian Reed TOTAL
						0.41667% 0.41667% 0.41667% 0.41667% 0.41666% 0.10417% 0.10417% 0.10416% 0.10416% 2.50%
			HBP Betty J. Njos (12.5% royalty)	14.285714%	Prima Exploration, Inc. Vegas Production Co. Petroro Corporation Gunlikson Petroleum, Inc. TOTAL	Blanch Marie Wilson Virginia Francis Pletcher Naylor Fred Forman Sandra K. Bolyard Vivian Forman James E. Moats TOTAL
						0.41667% 0.41667% 0.41667% 0.41667% 0.41666% 0.10417% 0.10417% 0.10416% 0.10416% 2.50%

TRACT NO.	DESCRIPTION OF LAND	NUMBER OF ACRES	SERIAL NUMBER & EXPIRATION DATE OF LEASE	BASIC ROYALTY AND PERCENTAGE	LESSEE OF RECORD AND PERCENTAGE	OVERRIDING ROYALTY AND PERCENTAGE
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12. Continued

HBP	Judy K. McCann (12.5% royalty)	14.285714%	Prima Exploration, Inc. Vegas Production Co. Petroco Corporation Gunlikson Petroleum, Inc. TOTAL	34.7000% 34.7000% 25.0000% 5.6000% 100.00%	Blanch Marie Wilson Virginia Francis Pletcher Naylor Fred Forman Sandra K. Bolyard Vivian Forman James E. Moats Donald R. Moats Wanda Weese Marian Reed TOTAL	0.41667% 0.41667% 0.41667% 0.41667% 0.41666% 0.10417% 0.10417% 0.10415% 0.10416% 2.50%
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HBP	Gladys K. Kahrs (12.5% royalty)	14.285714%	Prima Exploration, Inc. Vegas Production Co. Petroco Corporation Gunlikson Petroleum, Inc. TOTAL	34.7000% 34.7000% 25.0000% 5.6000% 100.00%	Blanch Marie Wilson Virginia Francis Pletcher Naylor Fred Forman Sandra K. Bolyard Vivian Forman James E. Moats Donald R. Moats Wanda Weese Marian Reed TOTAL	0.41667% 0.41667% 0.41667% 0.41667% 0.41666% 0.10417% 0.10417% 0.10416% 0.10416% 2.50%
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HBP	Clara J. Flemmer (12.5% royalty)	14.285714%	Prima Exploration, Inc. Vegas Production Co. Petroco Corporation Gunlikson Petroleum, Inc. TOTAL	34.7000% 34.7000% 25.0000% 5.6000% 100.00%	Blanch Marie Wilson Virginia Francis Pletcher Naylor Fred Forman Sandra K. Bolyard Vivian Forman James E. Moats Donald R. Moats Wanda Weese Marian Reed TOTAL	0.41667% 0.41667% 0.41667% 0.41667% 0.41666% 0.10417% 0.10417% 0.10416% 0.10416% 2.50%
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12. **Carriñerías Red River Unit Area** HBP Deborah Thomason 3.271429% Prima Exploration, Inc. 34.7000% Blanch Marie Wilson 8/31/2005/1667%

TRACT NO.	DESCRIPTION OF LAND	NUMBER OF ACRES	SERIAL NUMBER & EXPIRATION DATE OF LEASE	BASIC ROYALTY AND PERCENTAGE	LESSEE OF RECORD AND PERCENTAGE	OVERRIDING ROYALTY AND PERCENTAGE
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12a.	T21N-R4E, B.H.M. Sec. 5: SW/4NW/4	40.00	Effective 4-1-1973	SD-24289 U.S.A.-All (12.5% royalty)	100.00%	Prima Exploration, Inc. Vegas Production Co. Petroro Corporation Gunlikson Petroleum, Inc. TOTAL	34.7000% 34.7000% 25.0000% 5.6000% 100.00%	Henry Y. Yoshino Estate Joseph K. Yoshino, Trustee	3.00%
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13.	T21N-R4E, B.H.M. Sec. 5: SE/4	160.00	HBP	Marjorie Torpin (12.5% royalty)	14.285714%	Prima Exploration, Inc. Vegas Production Co. Petroro Corporation Gunlikson Petroleum, Inc. TOTAL	34.7000% 34.7000% 25.0000% 5.6000% 100.00%	Blanch Marie Wilson Virginia Francis Pletcher Naylor Fred Forman Sandra K. Bolyard Vivian Forman James E. Moats Donald R. Moats Wanda Weese Marian Reed TOTAL	0.41667% 0.41667% 0.41667% 0.41667% 0.41666% 0.10417% 0.10417% 0.10416% 0.10416% 2.50%
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HBP	Dorothy L. Thunem (12.5% royalty)	14.285714%	Prima Exploration, Inc. Vegas Production Co. Petroro Corporation Gunlikson Petroleum, Inc. TOTAL	34.7000% 34.7000% 25.0000% 5.6000% 100.00%	Blanch Marie Wilson Virginia Francis Pletcher Naylor Fred Forman Sandra K. Bolyard Vivian Forman James E. Moats Donald R. Moats Wanda Weese Marian Reed TOTAL	0.41667% 0.41667% 0.41667% 0.41667% 0.41666% 0.10417% 0.10417% 0.10416% 0.10416% 2.50%
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HBP	Betty J. Njos (12.5% royalty)	14.285714%	Prima Exploration, Inc. Vegas Production Co. Petroro Corporation Gunlikson Petroleum, Inc. TOTAL	34.7000% 34.7000% 25.0000% 5.6000% 100.00%	Blanch Marie Wilson Virginia Francis Pletcher Naylor Fred Forman Sandra K. Bolyard Vivian Forman James E. Moats Donald R. Moats	0.41667% 0.41667% 0.41667% 0.41667% 0.41666% 0.10417% 0.10417%
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HBP	Judy K. McCann (12.5% royalty)	14.285714%	Prima Exploration, Inc. Vegas Production Co. Petroro Corporation	34.7000% 34.7000% 25.0000%	Blanch Marie Wilson Virginia Francis Pletcher Naylor Fred Forman	0.41667% 0.41667% 0.41667%
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13.	Continued					Wanda Weese Marian Reed TOTAL	0.10416% 0.10416% 2.50%
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Central Buffalo Red River Link Area

TRACT NO.	DESCRIPTION OF LAND	NUMBER OF ACRES	SERIAL NUMBER & EXPIRATION DATE OF LEASE	BASIC ROYALTY AND PERCENTAGE	LESSEE OF RECORD AND PERCENTAGE	OVERRIDING ROYALTY AND PERCENTAGE
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HBP Dennis W. Palczewski (12.5% royalty) 3.571429% 100.00% 34.70000% 0.41867%

Prima Exploration, Inc. 34.70000%
 Vegas Production Co. 25.00000%
 Petroro Corporation 5.60000%
 Gunlikson Petroleum, Inc. 100.00%
 TOTAL 100.00%
 Vman Forman 0.10417%
 James E. Moats 0.10417%
 Donald R. Moats 0.10416%
 Wanda Weese 0.10416%
 Marran Reed 2.50%
 TOTAL 2.50%

HBP Dale R. Palczewski (12.5% royalty) 3.571429% 100.00% 34.70000% 0.41867%

Prima Exploration, Inc. 34.70000%
 Vegas Production Co. 25.00000%
 Petroro Corporation 5.60000%
 Gunlikson Petroleum, Inc. 100.00%
 TOTAL 100.00%
 Blanch Marie Wilson 0.10417%
 Virginia Francis Pletcher 0.10417%
 Naylor Fred Forman 0.10416%
 Sandra K. Bolyard 0.10416%
 Vivian Forman 2.50%
 James E. Moats 0.10417%
 Donald R. Moats 0.10417%
 Wanda Weese 0.10416%
 Marian Reed 2.50%
 TOTAL 2.50%

14. T21-N-R4E, B.H.M. 160.00 HBP Marjorie Torpin (12.5% royalty) 14.285714% 34.70000% 0.41867%

Prima Exploration, Inc. 34.70000%
 Vegas Production Co. 25.00000%
 Petroro Corporation 5.60000%
 Gunlikson Petroleum, Inc. 100.00%
 TOTAL 100.00%
 Blanch Marie Wilson 0.10417%
 Virginia Francis Pletcher 0.10417%
 Naylor Fred Forman 0.10416%
 Sandra K. Bolyard 0.10416%
 Vivian Forman 2.50%
 James E. Moats 0.10417%
 Donald R. Moats 0.10417%
 Wanda Weese 0.10416%
 Marian Reed 2.50%
 TOTAL 2.50%

HBP Dorothy L. Thunem (12.5% royalty) 14.285714% 24 34.70000% 0.41867%

Prima Exploration, Inc. 34.70000%
 Vegas Production Co. 34.70000%
 Virginia Francis Pletcher 8/31/2005 0.41867%
 Central Buffalo Rod River Unit Area

TRACT NO.	DESCRIPTION OF LAND	NUMBER OF ACRES	SERIAL NUMBER & EXPIRATION DATE OF LEASE	BASIC ROYALTY AND PERCENTAGE	LESSEE OF RECORD AND PERCENTAGE	OVERRIDING ROYALTY AND PERCENTAGE
HBP	Betty J. Njos (12.5% royalty)	14.285714%	Prima Exploration, Inc. Vegas Production Co. Petroro Corporation Gunlikson Petroleum, Inc. TOTAL	34.7000% 34.7000% 25.0000% 5.6000% 100.00%	Blanch Marie Wilson Virginia Francis Pletcher Naylor Fred Forman Sandra K. Bolyard Vivian Forman James E. Moats Donald R. Moats Wanda Weese Marian Reed TOTAL	0.41667% 0.41667% 0.41667% 0.41667% 0.41666% 0.10417% 0.10417% 0.10416% 0.10416% 2.50%
HBP	Judy K. McCann (12.5% royalty)	14.285714%	Prima Exploration, Inc. Vegas Production Co. Petroro Corporation Gunlikson Petroleum, Inc. TOTAL	34.7000% 34.7000% 25.0000% 5.6000% 100.00%	Blanch Marie Wilson Virginia Francis Pletcher Naylor Fred Forman Sandra K. Bolyard Vivian Forman James E. Moats Donald R. Moats Wanda Weese TOTAL	0.41667% 0.41667% 0.41667% 0.41667% 0.41666% 0.10417% 0.10417% 0.10416% 0.10416%
HBP	Gladys K. Kahrs (12.5% royalty)	14.285714%	Prima Exploration, Inc. Vegas Production Co. Petroro Corporation Gunlikson Petroleum, Inc. TOTAL	34.7000% 34.7000% 25.0000% 5.6000% 100.00%	Blanch Marie Wilson Virginia Francis Pletcher Naylor Fred Forman Sandra K. Bolyard Vivian Forman James E. Moats Donald R. Moats Wanda Weese Marian Reed TOTAL	0.41667% 0.41667% 0.41667% 0.41667% 0.41666% 0.10417% 0.10417% 0.10416% 0.10416% 2.50%
HBP	Clara J. Flemmer (12.5% royalty)	14.285714%	Prima Exploration, Inc. Vegas Production Co.	34.7000% 34.7000%	Blanch Marie Wilson Virginia Francis Pletcher	0.41667% 0.41667%

14. Continued

TRACT NO.	DESCRIPTION OF LAND	NUMBER OF ACRES	SERIAL NUMBER & EXPIRATION DATE OF LEASE	BASIC ROYALTY AND PERCENTAGE	LESSEE OF RECORD AND PERCENTAGE	OVERRIDING ROYALTY AND PERCENTAGE
HBP	Deborah Thomason (12.5% royalty)	3.571429%			Prima Exploration, Inc. Vegas Production Co. Petroro Corporation Gunliksson Petroleum, Inc. TOTAL	34.7000% Virginia Francis Pletcher Naylor Fred Forman Sandra K. Bolyard Vivian Forman James E. Moats Donald R. Moats Wanda Weese Marian Reed TOTAL
HBP	Mildred Richardson (12.5% royalty)	3.571429%			Prima Exploration, Inc. Vegas Production Co. Petroro Corporation Gunliksson Petroleum, Inc. TOTAL	34.7000% Virginia Francis Pletcher Naylor Fred Forman Sandra K. Bolyard Vivian Forman James E. Moats Donald R. Moats Wanda Weese Marian Reed TOTAL
HBP	Dennis W. Palczewski (12.5% royalty)	3.571429%			Prima Exploration, Inc. Vegas Production Co. Petroro Corporation Gunliksson Petroleum, Inc. TOTAL	34.7000% Virginia Francis Pletcher Naylor Fred Forman Sandra K. Bolyard Vivian Forman James E. Moats Donald R. Moats Wanda Weese Marian Reed TOTAL
HBP	Dale R. Palczewski (12.5% royalty)	3.571429%	26		Prima Exploration, Inc. Vegas Production Co.	34.7000% Virginia Francis Pletcher

14. Continued

Central Buffalo Rod River Unit Area

TRACT NO.	DESCRIPTION OF LAND	NUMBER OF ACRES	SERIAL NUMBER & EXPIRATION DATE OF LEASE	BASIC ROYALTY AND PERCENTAGE		LESSEE OF RECORD AND PERCENTAGE		OVERRIDING ROYALTY AND PERCENTAGE	
				PERCENTAGE	TOTAL	PERCENTAGE	TOTAL	PERCENTAGE	TOTAL
					100.00%	Petroco Corporation	25.0000%	Naylor Fred Forman	0.41667%
						Gunklison Petroleum, Inc.	5.6000%	Sandra K. Bolyard	0.41667%
						TOTAL	100.00%	Vivian Forman	0.41666%
								James E. Moats	0.10417%
								Donald R. Moats	0.10417%
								Wanda Weese	0.10416%
								Marian Reed	0.10416%
								TOTAL	2.50%

15.	T21N-R4E, B.H.M. Sec. 6: Lots 1, 2, S/2NE/4, SE/4	319.85	HBP	Church of the Covenant (12.5% royalty)	100.00%	Prima Exploration, Inc. Vegas Production Co. Petroco Corporation Gunklison Petroleum, Inc. TOTAL	34.7000% 34.7000% 25.0000% 5.6000% 100.00%	Blanch Marie Wilson Virginia Francis Platcher Naylor Fred Forman Sandra K. Bolyard Vivian Forman James E. Moats Donald R. Moats Wanda Weese Marian Reed TOTAL	0.41667% 0.41667% 0.41667% 0.41667% 0.41666% 0.10417% 0.10417% 0.10416% 0.10416% 2.50%
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16.	T21N-R4E, B.H.M. Sec. 6: Lots 3, 4, 5, 6, 7, SE/4NW/4, E/2SW/4	316.75	Not Yet Issued	State of South Dakota (12.5% royalty)	100.00%	Prima Exploration, Inc.	100.00%	None	
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STATE OF SOUTH DAKOTA
BEFORE THE SECRETARY OF
THE DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES

IN THE MATTER OF THE)
APPLICATION OF CBRRU 24-31NH)
CONTINENTAL RESOURCES, INC)

CERTIFICATION OF
APPLICANT

STATE OF SOUTH DAKOTA)
) SS
COUNTY OF HARDING)

I, NIK GARDNER, the applicant in the above matter after being duly sworn upon oath hereby certify the following information in regard to this application:

South Dakota Codified Laws Section 1-40-27 provides:

"The secretary may reject an application for any permit filed pursuant to Titles 34A or 45, including any application by any concentrated swine feeding operation for authorization to operate under a general permit, upon making a specific finding that:

(1) The applicant is unsuited or unqualified to perform the obligations of a permit holder based upon a finding that the applicant, any officer, director, partner, or resident general manager of the facility for which application has been made:

- (a) Has intentionally misrepresented a material fact in applying for a permit;*
- (b) Has been convicted of a felony or other crime of moral turpitude;*
- (c) Has habitually and intentionally violated environmental laws of any state or the United States which have caused significant and material environmental damage;*
- (d) Has had any permit revoked under the environmental laws of any state or the United States;*
- (e) Has otherwise demonstrated through clear and convincing evidence of previous actions that the applicant lacks the necessary good character and competency to reliably carry out the obligations imposed by law upon the permit holder; or*

(2) The application substantially duplicates an application by the same applicant denied within the past five years which denial has not been reversed by a court of competent jurisdiction. Nothing in this subdivision may be construed to prohibit an applicant from submitting a new application for a permit previously denied, if the new application represents a good faith attempt by the applicant to correct the deficiencies that served as the basis for the denial in the original application.

All applications filed pursuant to Titles 34A and 45 shall include a certification, sworn to under oath and signed by the applicant, that he is not disqualified by reason of this section from obtaining a permit. In the absence of evidence to the contrary, that certification shall constitute a prima facie showing of the suitability and qualification of the applicant. If at any point in the application review recommendation, or hearing process, the secretary finds the applicant has intentionally made any material misrepresentation of fact in regard to this certification, consideration of the application may be suspended and the application may be rejected as provided for under this section.

Applications rejected pursuant to this section constitute final agency action upon that application and may be appealed to circuit court as provided for under chapter 1-26."

Pursuant to SDCL 1-40-27, I certify that I have read the forgoing provision of state law, and that I am not disqualified by reason of that provision from obtaining the permit for which application has been made.

Dated this 22 day of JUNE, 2016.

Applicant

Subscribed and sworn before me this 24th day of June, 2016.

Notary Public

My commission expires: 4/27/18



ATTACH SHEET DISCLOSING ALL FACTS PERTAINING TO
SDCL 1-40-27 (1)(a) THROUGH (e).
ALL VIOLATIONS MUST BE DISCLOSED, BUT WILL NOT
AUTOMATICALLY RESULT IN THE REJECTION OF AN APPLICATION.