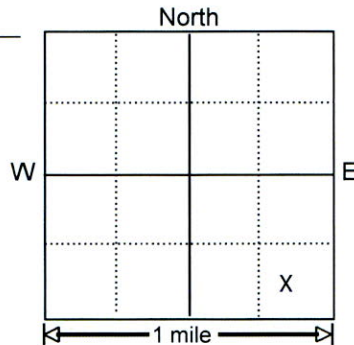


SOUTH DAKOTA WELL AND TEST HOLE PLUGGING REPORT 11-02

Location SE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec 2 Twp 1N Rg 7ECounty PenningtonPlease mark well
location with an "X"Plugging Completion Date December 8, 2015

Well Owner:

Name: Big D Oil CompanyAddress: 1515 Mount Rushmore RoadCity, State, Zip: Rapid City SD 57701

Comments:

MW-1
flush grade completion

CHECK APPROPRIATE BOX

EXISTING WELL ☒TEST HOLE ☐Well depth 18Casing material PVCCasing size(s) 2-inch IDCasing condition good

Hole depth _____

Hole size _____

Describe plugging procedure:

sand to top of watertable, bentonite (hydrated) to top of casing, concrete to ground surface

Describe grout or plugging material:

Baroid Benseal Holeplug

RECEIVED

FEB 29 2016

WATER RIGHTS
PROGRAMType of non-slip plug: n/aThis well or test hole was plugged under license # 648 and this report is true and accurate.Drilling firm: Leggette, Brashears & Graham, IncSignature of Licensed Representative: *Bradley J. Parkinson*Signature of Well Owner: *[Signature]*Date: 2/1/2016

**LEGGETTE, BRASHEARS & GRAHAM, INC.**

140 East Hinks Lane, Suite 126

Sioux Falls, SD 57104

(605) 334-6000 or Fax (605) 334-1850

GEOLOGIST LOG

WELL NO.: SB-3 (MW-1)

Page 1 of 1

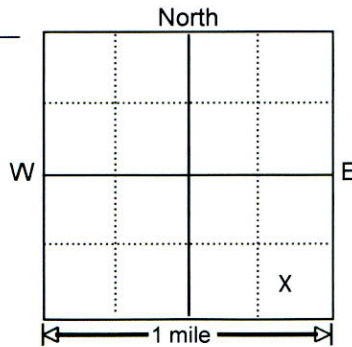
OWNER: Big D Oil #5
LOCATION: Rapid City, SD
DATE COMPLETED: April 25, 2011
DRILLING CO.: Terracon
SAMPLING METHOD: Continuous Sample Tube System
DRILLING METHOD: Hollow Stem Auger

GEOLOGIST: Ed Striebel
REFERENCE POINT (RP): Top of Casing
ELEVATION OF RP: 94.95
SURFACE COMPLETION: Flush-mount
STATIC WATER LEVEL: 8 feet
GROUND SURFACE ELEVATION: 95.25

ELEVATION IN FEET	WELL CONSTRUCTION	GEOLOGIC ORIGIN	GRAPHIC	LITHOLOGIC DESCRIPTION	FROM	TO	PID (PPM)	SAMPLE INTERVAL	DEPTH IN FEET
95	Flush-mount	FILL		ASPHALT	0	2.5	ND	S1	0
	Cement			FILL: 0.4 feet of base course, then sandy lean clay, brown to dark brown	2.5	5	ND	S2	
90	2" ID Sch 40 PVC	WEATHERED SKULL CREEK SHALE		SANDY LEAN CLAY: brown, moist	5	7.5	1.0	S3	-5
	Bentonite				7.5	10	250	S4	
	Silica Sand			@ 9 to 10 fbg, sand absent	10	12.5	314	S5	-10
85	2" ID Sch 40 PVC Slotted 0.010"			@ 10 fbg, with gravel, brown to grayish brown, wet	12.5	15	2.7	S6	
				LEAN CLAY: brown, moist, some gypsum replacement in fractures	15	17.5	1.1	S7	-15

NOTES: ND = Not Detected fbg = Feet Below Grade

SOUTH DAKOTA WELL AND TEST HOLE PLUGGING REPORT 11-02

Location SE ¼ SE ¼ Sec 2 Twp 1N Rg 7ECounty PenningtonPlease mark well
location with an "X"Plugging Completion Date December 8, 2015

Well Owner:

Name: Big D Oil CompanyAddress: 1515 Mount Rushmore RoadCity, State, Zip: Rapid City SD 57701

Comments:

MW-2
flush grade completion

CHECK APPROPRIATE BOX

EXISTING WELL ☒TEST HOLE ☐Well depth 15Casing material PVCCasing size(s) 2-inch IDCasing condition good

Hole depth _____

Hole size _____

Describe plugging procedure:

sand to top of watertable, bentonite (hydrated) to top of casing, concrete to ground surface

Describe grout or plugging material:

Baroid Benseal Holeplug

RECEIVED

FEB 29 2016

WATER RIGHTS
PROGRAMType of non-slip plug: n/aThis well or test hole was plugged under license # 648 and this report is true and accurate.Drilling firm: Leggette, Brashears & Graham, IncSignature of Licensed Representative: *Brashears & Graham*Signature of Well Owner: *[Signature]*Date: 2/1/2016



LEGGETTE, BRASHEARS & GRAHAM, INC.

140 East Hinks Lane, Suite 126

Sioux Falls, SD 57104

(605) 334-6000 or Fax (605) 334-1850

GEOLOGIST LOG

WELL NO.: SB-5 (MW-2)

Page 1 of 1

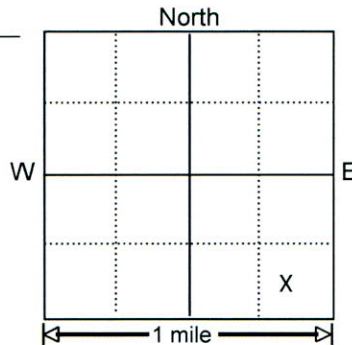
OWNER: Big D Oil #5
LOCATION: Rapid City, SD
DATE COMPLETED: April 26, 2011
DRILLING CO.: Terracon
SAMPLING METHOD: Continuous Sample Tube System
DRILLING METHOD: Hollow Stem Auger

GEOLOGIST: Ed Striebel
REFERENCE POINT (RP): Top of Casing
ELEVATION OF RP: 98.60
SURFACE COMPLETION: Flush-mount
STATIC WATER LEVEL: 7.5 feet
GROUND SURFACE ELEVATION: 99.0

ELEVATION IN FEET	WELL CONSTRUCTION	GEOLOGIC ORIGIN	GRAPHIC	LITHOLOGIC DESCRIPTION	FROM	TO	PID (PPM)	SAMPLE INTERVAL	DEPTH IN FEET
	Flush-mount			ASPHALT	0	2.5	ND	S1	0
	Cement	FILL		FILL: base course					
	Bentonite			@ 0.7 fbg, mostly sandy lean clay, reddish brown, moist					
95	2" ID Sch 40 PVC	WEATHERED		SANDY LEAN CLAY: reddish brown, moist to very moist	2.5	5	ND	S2	
					5	7.5	ND	S3	-5
		SKULL		SILTY SAND: brown, very moist	7.5	10	ND	S4	
90				@ 9 fbg, wet					
	Silica Sand	CREEK			10	12.5	ND	S5	-10
	2" ID Sch 40 PVC Slotted 0.010"	SHALE		CLAYEY GRAVEL: brown to reddish brown, moist	12.5	15	ND	S6	
85				LEAN CLAY: with sand, brown, moist					-15

NOTES: ND = Not Detected fbg = Feet Below Grade

SOUTH DAKOTA WELL AND TEST HOLE PLUGGING REPORT 11-02

Location SE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec 2 Twp 1N Rg 7ECounty PenningtonPlease mark well
location with an "X"Plugging Completion Date December 8, 2015

Well Owner:

Name: Big D Oil CompanyAddress: 1515 Mount Rushmore RoadCity, State, Zip: Rapid City SD 57701

Comments:

MW-3
flush grade completion

CHECK APPROPRIATE BOX

EXISTING WELL ☒TEST HOLE ☐Well depth 15Casing material PVCCasing size(s) 2-inch IDCasing condition good

Hole depth _____

Hole size _____

Describe plugging procedure:

sand to top of watertable, bentonite (hydrated) to top of casing, concrete to ground surface

Describe grout or plugging material:

Baroid Benseal Holeplug

RECEIVED

FEB 29 2016

WATER RIGHTS
PROGRAMType of non-slip plug: n/aThis well or test hole was plugged under license # 648 and this report is true and accurate.Drilling firm: Leggette, Brashears & Graham, IncSignature of Licensed Representative: *Brashears & Graham*Signature of Well Owner: *[Signature]*Date: 2/1/2016



LEGGETTE, BRASHEARS & GRAHAM, INC.

140 East Hinks Lane, Suite 126

Sioux Falls, SD 57104

(605) 334-6000 or Fax (605) 334-1850

GEOLOGIST LOG

WELL NO.: SB-6 (MW-3)

Page 1 of 1

OWNER: Big D Oil #5
LOCATION: Rapid City, SD
DATE COMPLETED: April 26, 2011
DRILLING CO.: Terracon
SAMPLING METHOD: Continuous Sample Tube System
DRILLING METHOD: Hollow Stem Auger

GEOLOGIST: Ed Striebel
REFERENCE POINT (RP): Top of Casing
ELEVATION OF RP: 97.31
SURFACE COMPLETION: Flush-mount
STATIC WATER LEVEL: 7.0 feet
GROUND SURFACE ELEVATION: 97.53

ELEVATION IN FEET	WELL CONSTRUCTION	GEOLOGIC ORIGIN	GRAPHIC	LITHOLOGIC DESCRIPTION	FROM	TO	PID (PPM)	SAMPLE INTERVAL	DEPTH IN FEET
95	Flush-mount Cement Bentonite 2" ID Sch 40 PVC	TOPSOIL		TOPSOIL: sandy clay, dark brown, moist	0	2.5	ND	S1	0
		FILL		FILL: mostly sandy lean clay, trace gravel, brown, moist	2.5	5	ND	S2	
				@ 6 fbg, very moist	5	7.5	ND	S3	-5
90	Silica Sand 2" ID Sch 40 PVC Slotted 0.010"	WEATHERED SKULL CREEK SHALE		SILTY SAND: brown, wet	7.5	10	ND	S4	
85				LEAN CLAY: brown to dark olive brown, moist, some gypsum replacement in fractures	12.5	15	ND	S6	-10
									-15

NOTES: ND = Not Detected fbg = Feet Below Grade

RECEIVED

FEB 29 2016

WATER RIGHTS
PROGRAM

Legend



MW Location

SB-3/MW-1/VMP-1

SB-5/MW-2

Big D Oil Company
1515 Mt Rushmore Rd

SB-6/MW-3

Mt. Rushmore Road (SD Hwy 16)

Franklin Street



0 40
Feet



Prepared By:
LEGGETTE, BRASHEARS & GRAHAM, INC.
Professional Ground-Water and
Environmental Engineering Services
140 East Hinks Lane, Suite 126
Sioux Falls, SD 57104
(605) 334-6000

BIG D OIL COMPANY #5
1515 MT. RUSHMORE ROAD, RAPID CITY, SOUTH DAKOTA

MONITORING WELL LOCATIONS (ABANDONED)

Name: BigD5_MWA

DATE: 26jul11

FIGURE: