

RAILROAD COMMISSION OF TEXAS

Tracking No.: 107955

Oil and Gas Division

Status: Submitted

This facsimile W-2 was generated electronically
from data submitted to the RRC.

API No. 42- 003-45835

7. RRC District No.

08

8. RRC Lease No.

44388

Oil Well Potential Test, Completion or Recompletion Report, and Log

1. FIELD NAME (as per RRC Records or Wildcat)

FUHRMAN-MASCHO

2. LEASE NAME

UNIVERSITY 48A

9. Well No.

9

3. OPERATOR'S NAME (Exactly as shown on Form P-5, Organization Report)

SANDRIDGE EXPL. AND PROD., LLC

RRC Operator No.

748011

10. County of well site

ANDREWS

4. ADDRESS

123 ROBERT S KERR AVE OKLAHOMA CITY, OK 73102-6406

11. Purpose of filing

Initial Potential ☒

Retest ☐

Reclass ☐

Well record only
(Explain in remarks) ☐

5. If Operator has changed within last 60 days, name former operator

6a. Location (Section, Block, and Survey)

48 , 13 , UL , A-U440

6b. Distance and direction to nearest town in this county.

ANDREWS

12. If workover or reclass, give former field (with reservoir) & Gas ID or oil lease no.

FIELD & RESERVOIR

GAS ID or
OIL LEASE #

Oil-O
Gas-G

Well #

N/A

13. Type of electric or other log run

Neutron logs

14. Completion or recompletion date

05/30/2014

SECTION I- POTENTIAL TEST DATA IMPORTANT: Test should be for 24 hours unless otherwise specified infield rules.

15. Date of test
06/09/2014

16. No. of hours tested
24

17. Production method (Flowing, Gas Lift, Jetting, Pumping- Size & Type of pump)
Pumping

18. Choke size

19. Production during
Test Period

Oil - BBLS
3.9

Gas - MCF
1

Water - BBLS
355

Gas - Oil Ratio
256

Flowing Tubing Pressure
105.0 PSI

20. Calculated 24-
Hour Rate

Oil - BBLS
3.9

Gas - MCF
1

Water - BBLS
355

Oil Gravity-API-60 °
32.0

Casing Pressure
60.0 PSI

21. Was swab used during this test?

Yes ☐

No ☒

22. Oil produced prior to test (New & Reworked wells)

23. Injection Gas-Oil Ratio

REMARKS: N/A

INSTRUCTIONS: File an original and one copy of the completed Form W-2 in the appropriate RRC District Office within 30 days after completing a well and within 10 days after a potential test. If an operator does not properly report the results of a potential test within the 10-day period, the effective date of the allowable assigned to the well will not extend back more than 10 days before the W-2 was received in the District Office. (Statewide Rules 16 and 51) To report a completion or recompletion, fill in both sides of this form. To report a retest, fill in only the front side.

WELL TESTERS CERTIFICATION

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I conducted or supervised this test by observation of (a) meter readings or (b) the top and bottom gauges of each tank into which production was run during the test. I further certify that the potential test data shown above is true, correct, and complete, to the best of my knowledge.

Signature: Well Tester

Name of Company

RRC Representative

OPERATOR'S CERTIFICATION

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct and complete, to the best of my knowledge.

SANDRIDGE EXPL. AND PROD., LLC

Type or printed name of operator's representative

(405) 429-6414

06/18/2014

Telephone: Area Code

Number

Month Day Year

Regulatory Tech I

Title of Person

Stephanie Reynolds

Signature

SECTION III										DATA ON WELL COMPLETION AND LOG (Not Required on Retest)									
24. Type of Completion New Well <input checked="" type="checkbox"/> Deepening <input type="checkbox"/> Plug Back <input type="checkbox"/> Other <input type="checkbox"/>										25. Permit to Drill, Plug Back or Deepen DATE 01/07/2014 PERMIT NO. 775461 Rule 37 Exception CASE NO.									
26. Notice of Intention to Drill this well was filed in Name of SANDRIDGE EXPL. AND PROD., LLC										Water Injection Permit PERMIT NO.									
27. Number of producing wells on this lease in this field (reservoir) including this well 4					28. Total number of acres in this lease 160.0					Salt Water Disposal Permit PERMIT NO.									
29. Date Plug Back, Deepening, Workover or Drilling Operations: 04/17/2014					Commenced 05/07/2014		Completed 05/07/2014		30. Distance to nearest well, Same Lease & Reservoir 934.0			Other PERMIT NO.							
31. Location of well, relative to nearest lease boundaries 995.0 Feet From West South Line of the UNIVERSITY 48A 1003.0 Feet from Lease																			
32. Elevation (DF, RKB, RT, GR ETC.) 3226 GR										33. Was directional survey made other than inclination (Form W-12)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No									
34. Top of Pay 4770		35. Total Depth 4770		36. P. B. Depth 4710		37. Surface Casing Determined by Field Rules <input type="checkbox"/>		Recommendation of T.D.W.R. <input checked="" type="checkbox"/>		Dt. of Letter 12/23/2013		Railroad Commission (Special) <input type="checkbox"/>		Dt. of Letter					
38. Is well multiple completion? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																			
39. If multiple completion, list all reservoir names (completions in this well) and Oil Lease or Gas ID No. FIELD & RESERVOIR N/A										GAS ID or OIL LEASE #		Oil-G Gas-G		Well #					
40. Intervals Drilled by: Rotary Tools <input checked="" type="checkbox"/> Cable Tools		41. Name of Drilling Contractor												42. Is Cementing Affidavit Attached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
43. CASING RECORD (Report All Strings Set in Well)																			
CASING SIZE		WT #/FT.		DEPTH SET		MULTISTAGE TOOL DEPTH		TYPE & AMOUNT CEMENT (sacks)		HOLE SIZE		TOP OF CEMENT		SLURRY VOL. cu. ft.					
8 5/8				1709				CLASS C 700		12 1/4		0		1190.0					
5 1/2				4770				CLASS C 700		7 7/8		0		1426.0					
44. LINER RECORD																			
Size		Top		Bottom		Sacks Cement		Screen											
N/A																			
45. TUBING RECORD														46. Producing Interval (this completion) Indicate depth of perforation or open hole					
Size		Depth Set		Packer Set		From 4392		To 4577											
2 7/8		4418				From		To											
						From		To											
						From		To											
47. ACID, SHOT, FRACTURE, CEMENT SQUEEZE. ETC.																			
Depth Interval						Amount and Kind of Material Used													
4392.0				4577.0		WATER=227BBLs ACID=48BBLs 20#X-LINK GEL PAD=399BBLs SAND LADEN 20#X-LINK GEL=1767BBLs PROP=177540													
48. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)																			
Formations				Depth				Formations				Depth							
SEVEN RIVERS								PENNSYLVANIAN											
HOLT								MCKEE											
GLORIETA								STRAWN											
TUBB								FUSSELMAN											
CLEARFORK								DEVONIAN											
PERMIAN DETRITAL								SILURIAN											
LEON								ELLENBURGER											
WICHITA ALBANY								YATES				2911.0							

48. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)			
Formations	Depth	Formations	Depth
SPRABERRY		QUEEN	3817.0
DEAN		GRAYBURG	4154.0
WOLFCAMP		SAN ANDRES - CO2 FLOOD, HIGH FLOWS, H2S, CORROSIVE	4463.0
CANYON			
REMARKS: N/A			

Cementor: Fill in shaded areas
Operator: Fill in other items

Form W-15
Cementing Report

RAILROAD COMMISSION OF TEXAS

Oil and Gas Division

1. Operator's Name (As Shown on Form P-5, Organization Report)		2. RRC Operator No.	3. RRC District No.	4. County of Well Site	
Sandridge Energy		748011	08	Andrews	
5. Field Name (API No. in parentheses - See RRC Records)		6. API No.		7. Drilling Permit No.	
Furnman Maschio		42-003-45835		775461	
8. Lease Name		9. Rule 37 Case No.	10. Oil Lease/Gas ID No.	11. Well Number	
University 48 A			44388	9	

CASING CEMENTING DATA:		SURFACE CASING	INTERMEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				SINGLE STRING	MULTIPLE PARALLEL STRINGS	TOOL	SHOE
12. Cementing Date				4/21/2014			
13. *Drilled Hole Size				7 7/8			
*Ext. % Wash or Hole Enlargement							
14. Size of Casing (in. O.D.)				5 1/2			
15. Top of Liner (ft)							
16. Setting Depth (ft)				4770			
17. Number of Centralizers Used				30			
18. Hrs. Waiting on Cement Before Drill-Out				12+			
1st Slurry	19. API Cement Used: No. of Sacks >			500			
	Class >			50/50 Poz C			
	Additives >			See Remarks			
2nd Slurry	No. of Sacks >			200			
	Class >			50/50 Poz C			
	Additives >			See Remarks			
3rd Slurry	No. of Sacks >						
	Class >						
	Additives >						
1st	20. Slurry Pumped: Volume (cu.ft.) >			1180.00			
	Height (ft) >			6811.00			
2nd	Volume (cu.ft.) >			246.00			
	Height (ft) >			1420.00			
3rd	Volume (cu.ft.) >						
	Height (ft) >						
Total	Volume (cu.ft.) >			1426.00			
	Height (ft) >			8231			
21. Was Cement Circulated to Ground Surface (or Bottom of Casing) Outside Casing?				NO			
22. Remarks							
50/50 Poz C W/2/10%C19-1/8PPSCelloFlake-3PPSKolSeal-10%Gel-5%Salt							
50/50Poz C W/2% Gel- 2/10% C-12- 5% Salt							

OVER →

CEMENTING TO PLUG AND ABANDON	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
23. Cementing Date								
24. Size of Hole or Pipe Plugged (in)								
25. Depth to Bottom of Tubing or Drill Pipe (ft)								
26. Sacks of Cement Used (each plug)								
27. Slurry Volume Pumped (cu.ft.)								
28. Calculated Top of Plug (ft)								
29. Measured Top of Plug, If Tagged (ft)								
30. Slurry Wt. (lbs/gal)								
31. Type Cement								

CEMENTERS CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

Ovel Alcantar

Name and Title of Cementer's Representative

Cement Specialists LLC

Cementing Company

Ovel Alcantar
Signature

4004 NCR 1150

Midland

TX.

79705

432-617-2243

April 21, 2014

Address

City

State

Zip Code

Tel: Area Code Number

Date: Mo. Day Yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

Sammy Ruiz
Typed or Printed Name of Operators Representative

Co. Rep
Title

Sammy Ruiz
Signature

23 Robert S. Ken Ave OLC, OK 73103 (405) 429-6414
Address City State Zip Code Tel: Area Code Number

4-21-14
Date: Mo. Day Yr.

Instruction to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion, and 14 (Well Plugging). For offshore operations, see the requirements of Rule 13 (c).

A. What to file. An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:

- * An initial oil or gas completion report, **Form W-2 or G-1**, as required by Statewide or special field rules;
- * **Form W-4**, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
- * **Form W-3**, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete **W-15**, in addition to **Form W-3**, to show any casing cemented in the hole.

B. Where to file. The appropriate Commission District Office for the county in which the well is located.

C. **Surface casing.** An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.

D. **Centralizers.** Surface casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In nondeviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.

E. **Exceptions and alternative casing programs.** The District Director may grant an exception to the requirements of Statewide Rule 13. In a written applications, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. **An operator must obtain approval of any exception before beginning casing and cementing operations.**

F. **Intermediate and production casing.** For specific technical requirements, operators should consult Statewide Rule 12 (b) (3) and (4).

G. **Plugging and abandoning.** Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

Cementer: Fill in shaded areas
Operator: Fill in other items

Form W-15
Cementing Report

RAILROAD COMMISSION OF TEXAS

Oil and Gas Division

1. Operator's Name (As Shown on Form P-5, Organization Report)		2. RRC Operator No.	3. RRC District No.	4. County of Well Site	
Sandridge Energy		748011	08	Andrews	
5. Field Name (Wildcat)		6. API No.		7. Drilling Permit No.	
Furman, mascho		42-003-45835		775461	
8. Lease Name		9. Rule 37 Case No.	10. Oil Lease/Gas ID No.	11. Well Number	
University 48 A			44388	9	

CASING CEMENTING DATA:		SURFACE CASING	INTERMEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				SINGLE STRING	MULTIPLE PARALLEL STRINGS	TOOL	SHOE
12. Cementing Date		4/18/2014					
13. *Drilled Hole Size		12 1/4					
*Ext. % Wash or Hole Enlargement							
14. Size of Casing (in. O.D.)		8.568					
15. Top of Liner (ft)							
16. Setting Depth (ft)		1709					
17. Number of Centralizers Used		11					
18. Hrs. Waiting on Cement Before Drill-Out		12+					
1st Slurry	19. API Cement Used: No. of Sacks >	500					
	Class >	65/35 Poz C					
	Additives >	See Remarks					
2nd Slurry	No. of Sacks >	200					
	Class >	Class C					
	Additives >	See Remarks					
3rd Slurry	No. of Sacks >						
	Class >						
	Additives >						
1st	20. Slurry Pumped: Volume (cu.ft.) >	920.00					
	Height (ft) >	2229.00					
2nd	Volume (cu.ft.) >	270.00					
	Height (ft) >	654.00					
3rd	Volume (cu.ft.) >						
	Height (ft) >						
Total	Volume (cu.ft.) >	1190.00					
	Height (ft) >	2883					
21. Was Cement Circulated to Ground Surface (or Bottom of Casing) Outside Casing?		YES					
22. Remarks							
1 65/35 C W/ 5% Salt- 6% Gel- 1/8 PPS Celloflake- 2/10% C-12							
2 Class C W/ 2/10% C-12- 2% CACL2							
Circulated 50 bbls to surface (171 sks)							

OVER →

CEMENTING TO PLUG AND ABANDON	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
23. Cementing Date								
24. Size of Hole or Pipe Plugged (in)								
25. Depth to Bottom of Tubing or Drill Pipe (ft)								
26. Sacks of Cement Used (each plug)								
27. Slurry Volume Pumped (cu.ft.)								
28. Calculated Top of Plug (ft)								
29. Measured Top of Plug, If Tagged (ft)								
30. Slurry Wt. (lbs/gal)								
31. Type Cement								

CEMENTERS CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

Ovel Alcantar

Name and Title of Cementer's Representative

Cement Specialists LLC

Cementing Company

Signature

4004 NCR 1150

Midland

TX.

79705

432-617-2243

April 18, 2014

Address

City

State

Zip Code

Tel: Area Code Number

Date: Mo. Day Yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

Typed or Printed Name of Operators Representative

Title

Signature

Address

City

State

Zip Code

Tel: Area Code Number

Date: Mo. Day Yr.

Instruction to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion, and 14 (Well Plugging). For offshore operations, see the requirements of Rule 13 (c).

A. What to file. An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:

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* Form W-4, Application for Multiple Completion, if the well is a multiple parallel casing completion; and

* Form W-3, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete W-15, in addition to Form W-3, to show any casing cemented in the hole.

B. Where to file. The appropriate Commission District Office for the county in which the well is located.

C. Surface casing. An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.

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E. Exceptions and alternative casing programs. The District Director may grant an exception to the requirements of Statewide Rule 13. In a written applications, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. An operator must obtain approval of any exception before beginning casing and cementing operations.

F. Intermediate and production casing. For specific technical requirements, operators should consult Statewide Rule 12 (b) (3) and (4).

G. Plugging and abandoning. Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

RAILROAD COMMISSION OF TEXAS

Oil and Gas Division

ELECTRIC LOG
STATUS REPORT

FORM L-1

Tracking No.: 107955

This facsimile L-1 was generated electronically from data submitted to the RRC.

Instructions

When to File Form L-1:

- with Forms G-1, W-2, and GT-1 for new and deepened gas, oil, and geothermal wells
- with Form W-3 for plugged dry holes
- when sending in a log which was held under a request for confidentiality and the period for confidentiality has not yet expired.

When is Form L-1 NOT required:

- with Forms W-2, G-1, and GT-1 filed for injection wells, disposal wells, water supply wells, service wells, re-test wells, re-classifications, and plugbacks of oil, gas or geothermal wells
- with Form W-3 for plugging of other than a dry hole

Where to File Form L-1:

- with the appropriate Commission district office

Filling out Form L-1:

- Section I and the signature section must be filled out for all wells
- complete only the appropriate part of Section II

Type of log required:

- any wireline survey run for the purpose of obtaining lithology, porosity, or resistivity information
- no more than one such log is required but it must be of the subject well
- if such log is NOT run on the subject well, do NOT substitute any other type of log; just select Section II, Part A below

SECTION I. IDENTIFICATION

Operator Name: SANDRIDGE EXPL. AND PROD., LLC	District No. 08	Completion Date: 05/30/2014
Field Name FUHRMAN-MASCHO	Drilling Permit No. 775461	
Lease Name UNIVERSITY 48A	Lease/ID No. 44388	Well No. 9
County ANDREWS	API No. 42- 003-45835	

SECTION II. LOG STATUS (Complete either A or B)

☐ A. BASIC ELECTRIC LOG NOT RUN

☒ B. BASIC ELECTRIC LOG RUN. (Select one)

- ☒ 1. Confidentiality is requested and a copy of the header for each log that has been run on the well is attached.
- ☐ 2. Confidentiality already granted on basic electric log covering this interval (applicable to deepened wells only).
- ☐ 3. Basic electric log covering this interval already on file with Commission (applicable to deepened wells only).
- ☐ 4. Log attached to (select one):

☐ (a) Form L-1 (this form). If the company/lease name on log is different from that shown in Section I, please enter name on log here: _____

Check here if attached log is being submitted after being held confidential. ☐

☐ (b) Form P-7, Application for Discovery Allowable and New Field Designation.

☐ (c) Form W-4, Application for Multiple Completion:

Lease or ID No(s). _____

Well No(s). _____

Stephanie Reynolds

Signature

SANDRIDGE EXPL. AND PROD., LLC

Name (print)

Regulatory Tech I

Title

(405) 429-6414

Phone

06/18/2014

Date

-FOR RAILROAD COMMISSION USE ONLY-

Groundwater
Advisory Unit

GROUNDWATER PROTECTION DETERMINATION

Date **December 23, 2013**

GAU File No.: SC- **16236**

***** EXPEDITED APPLICATION *****

API Number **00300000**

Attention: **DANA ALANIZ**

RRC Lease No. **000000**

SC_748011_00300000_000000_16236.pdf

**SANDRIDGE E&P LLC
123 ROBERT S KERR
OKLAHOMA CITY OK 73102**

--Measured--

1650 ft FEL

1650 ft FNL

MRL: SECTION

Digital Map Location:

X-coord/Long **671776**

Y-coord/Lat **6830937**

Datum **83** Zone **NC**

P-5# 748011

County **ANDREWS**

Lease & Well No. **UNIVERSITY 48A #9**

Purpose **ND**

Location **SUR-UL,BLK-13,SEC-48,-- [TD=5200] , [RRC 8] ,**

To protect usable-quality groundwater at this location, the Groundwater Advisory Unit of the Texas Railroad Commission recommends:

The interval from the land surface to a depth of 300 feet and the ZONE from 1200 feet to 1600 feet must be protected.

Note: Unless stated otherwise, this recommendation is intended to apply only to the subject well and not for area wide use. This recommendation is intended for normal drilling, production, and plugging operations only. It does not apply to saltwater disposal operation into a nonproductive zone (RRC Form W-14).

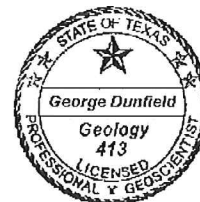
If you have any questions, please contact us at 512-463-2741, gau@rrc.state.tx.us, or by mail.

Sincerely,

Digitally signed by George Dunfield
DN: cn=US, o=TEXAS, f=Austin, o=Railroad
Commission of Texas, ou=Groundwater
Advisory Unit, cn=George Dunfield,
email=george.dunfield@rrc.state.tx.us
Date: 2013.12.23 17:08:12 -0600

George Dunfield, P.G.

GEOLOGIST SEAL



Geologist, Groundwater Advisory Unit
Oil & Gas Division

The seal appearing on this document was authorized by George Dunfield on 12/23/2013
Note: Alteration of this electronic document will invalidate the digital signature.

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-12
(1-1-71)
FOD1296

INCLINATION REPORT (One Copy Must Be Filed With Each Completion Report)		6. RRC District 08
1. FIELD NAME (as per RRC Records or Wildcat) FUHRMAN-MASCHO	2. LEASE NAME UNIVERSITY 48A	7. RRC Lease Number. (Oil completions only)
3. OPERATOR SANDRIDGE EXPL AND PROD., LLC		8. Well Number 9
4. ADDRESS 123 ROBERT S KERR OKLAHOMA CITY, OK 73102		9. RRC Identification Number (Gas completions only)
SEC. 48, BLK. 13, UL, A-U440		10. County ANDREWS

RECORD OF INCLINATION

*11. Measured Depth (feet)	12. Course Length (Hundreds of feet)	*13. Angle of Inclination (Degrees)	14. Displacement per Hundred Feet (Sine of Angle x 100)	15. Course Displacement (feet)	16. Accumulative Displacement (feet)
209	2.09	0.50	0.87	1.82	1.82
715	5.06	0.70	1.22	6.18	8.01
1203	4.88	1.10	1.92	9.37	17.37
1752	5.49	0.90	1.57	8.62	26.00
2227	4.75	1.10	1.92	9.12	35.12
2704	4.77	2.50	4.36	20.81	55.92
3181	4.77	1.80	3.14	14.98	70.91
3657	4.76	2.50	4.36	20.76	91.67
4133	4.76	1.20	2.09	9.97	101.64
4616	4.83	1.00	1.75	8.43	110.07

If additional space is needed, use the reverse side of this form.

17. Is any information shown on the reverse side of this form? ☐ yes ☒ no
18. Accumulative total displacement of well bore at total depth of 4616 feet = 110.07 feet.
- *19. Inclination measurements were made in - ☐ Tubing ☐ Casing ☐ Open hole ☒ Drill Pipe
20. Distance from surface location of well to the nearest lease line 995.0 feet.
21. Minimum distance to lease line as prescribed by field rules 330.0 feet.
22. Was the subject well at any time intentionally deviated from the vertical in any manner whatsoever? NO

(If the answer to the above question is "yes," attach written explanation of the circumstances.)

<p>INCLINATION DATA CERTIFICATION</p> <p>I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have personal knowledge of the inclination data and facts placed on both sides of this form and that such data and facts are true, correct, and complete to the best of my knowledge. This certification covers all data as indicated by asterisks (*) by the item numbers on this form.</p> <p><u>GREG B. DYKES SR.</u> Signature of Authorized Representative</p> <p>GREG B. DYKES SR. - VP SERVICES Name of Person and Title (type or print)</p> <p>LARIAT SERVICES INC Name of Company</p> <p>Telephone: <u>(405) 429-5506</u> Area Code</p>	<p>OPERATOR CERTIFICATION</p> <p>I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have personal knowledge of all information presented in this report, and that all data presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all data and information presented herein except inclination data as indicated by asterisks (*) by the item numbers on this form.</p> <p><u>Stephanie Reynolds</u> Signature of Authorized Representative</p> <p><u>Stephanie Reynolds-Regiscent</u> Name of Person and Title (type or print)</p> <p><u>Sandridge Energy</u> Operator</p> <p>Telephone: <u>(405) 429-6614</u> Area Code</p>
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Railroad Commission Use Only:

Approved By: _____ Title: _____ Date: _____

* Designates items certified by company that conducted the inclination surveys.