



RAILROAD COMMISSION OF TEXAS

Form W-2

1701 N. Congress
P.O. Box 12967
Austin, Texas 78701-2967

Status: Approved
Date: 01/07/2016
Tracking No.: 147074

OIL WELL POTENTIAL TEST, COMPLETION OR RECOMPLETION REPORT,

OPERATOR INFORMATION			
Operator	CONOCOPHILLIPS COMPANY	Operator	172232
Operator	600 W ILLINOIS AVE MIDLAND, TX 79701-0000		

WELL INFORMATION			
API	42-003-47198	County:	ANDREWS
Well No.:	5	RRC District	08
Lease	UNIVERSITY UA	Field	MARTIN (CONSOLIDATED)
RRC Lease	37642	Field No.:	57774275
Location	Section: 24, Block: 11, Survey: UL, Abstract: U344		
Latitude	32.14529	Longitud	-102.73867
This well is 16 miles in a SW direction from ANDREWS, which is the nearest town in the			

FILING INFORMATION			
Purpose of	Initial Potential		
Type of	New Well		
Well Type:	Producing	Completion or Recompletion	10/16/2015
Type of Permit	Date	Permit No.	
Permit to Drill, Plug Back, or Rule 37 Exception	07/23/2015	808508	
Fluid Injection			
O&G Waste Disposal			
Other:			

COMPLETION INFORMATION			
Spud	08/31/2015	Date of first production after rig	10/16/2015
Date plug back, deepening, drilling operation	08/31/2015	Date plug back, deepening, recompletion, drilling operation	09/12/2015
Number of producing wells on this lease this field (reservoir) including this	6	Distance to nearest well in lease & reservoir	927.0
Total number of acres in	160.00	Elevation	3273 GL
Total depth TVD	8794	Total depth MD	
Plug back depth TVD	8743	Plug back depth MD	
Was directional survey made other inclination (Form W-	Yes	Rotation time within surface casing Is Cementing Affidavit (Form W-15)	70.8 Yes
Recompletion or	No	Multiple	No
Type(s) of electric or other log(s)	Neutron/Density logs (combo of tools)		
Electric Log Other Description:			
Location of well, relative to nearest lease of lease on which this well is	1270.0 Feet from the North Line and 1195.0 Feet from the East Line of the UNIVERSITY -UA- Lease.	Off Lease :	No

FORMER FIELD (WITH RESERVOIR) & GAS ID OR OIL LEASE NO.			
Field & Reservoir	Gas ID or Oil Lease	Well No.	Prior Service Type
W2:	N/A		

PACKET:	N/A		
FOR NEW DRILL OR RE-ENTRY, SURFACE CASING DEPTH DETERMINED BY:			
GAU Groundwater Protection Determination	Depth	1300.0	Date 04/30/2012
SWR 13 Exception	Depth		

INITIAL POTENTIAL TEST DATA FOR NEW COMPLETION OR RECOMPLETION		
Date of	11/06/2015	Production Pumping
Number of hours	24	Choke
Was swab used during this	No	Oil produced prior to
PRODUCTION DURING TEST PERIOD:		
Oil	12.00	Gas 84
Gas - Oil	7000	Flowing Tubing
Water	126	
CALCULATED 24-HOUR RATE		
Oil	12.0	Gas 84
Oil Gravity - API - 60.:	40.8	Casing
Water	126	

CASING RECORD											
Ro	Type of Casing	Casing	Hole	Setting	Multi -	Multi -	Cement	Cement	Slurry	Top of	TOC
		Size (in.)	Size	Depth	Stage Tool	Stage Shoe	Class	Amoun	Volume (cu.	Cement (ft.)	Determined By
1	Surface	8 5/8	12 1/4	1383			C	927	1519.0	0	Circulated to Surface
2	Conventional Production	5 1/2	7 7/8	8786			H, C	1367	3141.0	0	Circulated to Surface

LINER RECORD									
<u>Ro</u>	<u>Liner Size</u>	<u>Hole Size</u>	<u>Liner Top</u>	<u>Liner Bottom</u>	<u>Cement Class</u>	<u>Cement Amoun</u>	<u>Slurry Volume (cu.)</u>	<u>Top of Cement (ft.)</u>	<u>TOC Determined</u>
N/A									

TUBING RECORD			
<u>Ro</u>	<u>Size (in.)</u>	<u>Depth</u>	<u>Size (ft.)</u>
1	2 7/8	8432	Packer Depth (ft.)/Type 8344 / TAC

PRODUCING/INJECTION/DISPOSAL INTERVAL			
<u>Ro</u>	<u>Open hole?</u>	<u>From (ft.)</u>	<u>To (ft.)</u>
1	No	L 8233	8236.0
2	No	L 8290	8310.0

ACID, FRACTURE, CEMENT SQUEEZE, CAST IRON BRIDGE PLUG, RETAINER, ETC.			
Was hydraulic fracturing treatment		Yes	
Is well equipped with a downhole sleeve?		No	
Production casing test pressure (PSIG)		Actual maximum pressure (PSIG) during	
hydraulic fracturing		6730	
Has the hydraulic fracturing fluid disclosure been		Yes	
<u>Ro</u>	<u>Type of Operation</u>	<u>Amount and Kind of Material Used</u>	<u>Depth Interval (ft.)</u>

FORMATION RECORD					
Formations	Encountere	Depth TVD	Depth MD	Is formation	Remarks
YATES	Yes	2698.0		Yes	
SEVEN RIVERS	Yes	2946.0		Yes	
QUEEN	Yes	3600.0		Yes	
GRAYBURG	Yes	3903.0		Yes	
SAN ANDRES - CO2 FLOOD, HIGH FLOWS, H2S, CORROSIVE	Yes	4155.0		Yes	
HOLT	No			No	NOT ENCOUNTERED - PINCHED OUT
GLORIETA	Yes	5275.0		Yes	
TUBB	Yes	6094.0		Yes	
CLEARFORK	Yes	6184.0		Yes	
PERMIAN DETRITAL	No			No	NOT ENCOUNTERED - PINCHED OUT
LEON	No			No	NOT ENCOUNTERED - PINCHED OUT
WICHITA ALBANY	Yes	6620.0		Yes	
SPRABERRY	No			No	NOT ENCOUNTERED - PINCHED OUT
DEAN	No			No	NOT ENCOUNTERED - PINHCED OUT
WOLFCAMP	Yes	7513.0		Yes	
CANYON	No			No	NOT ENCOUNTERED - BELOW TD
PENNSYLVANIAN	No			No	NOT ENCOUNTERED - BELOW TD
MCKEE	No			No	NOT ENCOUNTERED - BELOW TD
STRAWN	No			No	NOT ENCOUNTERED - BELOW TD
FUSSELMAN	No			No	NOT ENCOUNTERED - BELOW TD
DEVONIAN	No			No	NOT ENCOUNTERED - BELOW TD
SILURIAN	No			No	NOT ENCOUNTERED - BELOW TD
ELLENBURGER	No			No	NOT ENCOUNTERED - BELOW TD
Do the producing interval of this well produce H2S with a concentration in excess of 100 ppm					Yes
Is the completion being downhole commingled			No		

REMARKS

RRC REMARKS

PUBLIC COMMENTS:

CASING RECORD :

TUBING RECORD:

PRODUCING/INJECTION/DISPOSAL INTERVAL :

ACID, FRACTURE, CEMENT SQUEEZE, CAST IRON BRIDGE PLUG, RETAINER, ETC. :

POTENTIAL TEST DATA:

OPERATOR'S CERTIFICATION

Printed	Colleen Reda
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Telephone (281) 206-5219

Title: Regulatory Specialist

Date 12/04/2015

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

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form W-15
Cementing Report
Rev. 04/28/2014
046292

1. Operator's Name (As shown on Form P-5, Organization Report) CONOCOPHILLIPS COMPANY	2. RRC Operator No. 172232	3. RRC District No. 08	4. County of Well Site ANDREWS
5. Field Name (Wildcat or exactly as shown on RRC Records) MARTIN (Consolidated)		6. API No. 42-003-47198	7. Drilling Permit No. 808508
8. Lease Name UNIVERSITY 'UA'	9. Rule 37 Case No.	10. Oil Lease/Gas ID No. 37642	11. Well No. 5

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12. Cementing Date		9/1/15					
13. • Drilled Hole Size		12 1/4"					
• Est. % wash or hole enlargement							
14. Size of casing (in. O.D.)		8 5/8"					
15. Top of liner (ft.)							
16. Setting depth (ft.)		1383'					
17. Number of centralizers used		13					
18. Hrs. Waiting on cement before drill-out		16					
1 st Slurry	19. API cement used: No. of sacks ▶	676					
	Class ▶	C					
	Additives ▶	22A					
2 nd Slurry	No. of sacks ▶	251					
	Class ▶	C					
	Additives ▶	22B					
3 rd Slurry	No. of sacks ▶						
	Class ▶						
	Additives ▶						
1 st	20. Slurry pumped: Volume (cu. ft.) ▶	1183					
	Height (ft.) ▶	2866					
2 nd	Volume (cu. ft.) ▶	336					
	Height (ft.) ▶	814					
3 rd	Volume (cu. ft.) ▶						
	Height (ft.) ▶						
Total	Volume (cu. ft.) ▶	1519					
	Height (ft.) ▶	3680					
21. Was cement circulated to ground surface (or bottom of cellar) outside casing ?		YES					

(22). Remarks #1) A) CLASS C+.005#/sk STATIC FREE+2%CALCIUM CHLORIDE+.30%R-3+. 25#/ sk CELLO FLAKE+ 4% BENTONITE II + 10% CD-32 22B)CLASS C+.005#/sk STATIC FREE+1%CALCIUM CHLORIDE+.25#/sk CELLO FLAKE+.25% R-3 CIRCULATED 76 BBLs

ConocoPhillips

SEP 07 2015

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. (lb/gal)								
31. Type cement								

CEMENTER'S CERTIFICATE: I declare under penalties 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.

Field Specialist/GUADALUPE GARCIA

Name and title of cementer's representative

BAKER HUGHES OILFIELD OPS, INC.

Cementing Company

[Signature]
Signature

2929 Allen Parkway Suite 2100

Address

Houston,

City,

Texas,

State,

77019

Zip Code

(713) 439-8600

Tel: Area Code Number

9/1/15

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.

Colleen Reda

Typed or printed name of operator's representative

Regulatory Specialist

Title

Colleen Reda
Signature

600 N. DAIKY ASHFORD

Address

HOUSTON TX 77079

City,

State,

Zip Code

281-206-5219

Tel.: Area Code Number

11-1-15

Date: mo. day yr.

Instructions 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 Form 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 Committee.

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 Non-deviated 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 application, 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 13 (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 1,000 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.

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form W-15
Cementing Report
Rev. 4/28/2014
046292

1. Operator's Name (As shown on Form P-5, Organization Report) <i>ConocoPhillips Company</i>	2. RRC Operator No. <i>172232</i>	3. RRC District No. <i>08</i>	4. County of Well Site <i>Andrews</i>
5. Field Name (Wildcat or exactly as shown on RRC Records) <i>Martin (Consolidated)</i>		6. API No. <i>42-003-47198</i>	7. Drilling Permit No. <i>808508</i>
8. Lease Name <i>University 'UA'</i>	9. Rule 37 Case No.	10. Oil Lease/Gas ID No. <i>37642</i>	11. Well No. <i>5</i>

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12. Cementing Date				<i>09-12-2015</i>			
13. • Drilled Hole Size				<i>7 7/8"</i>			
• Est. % wash or hole enlargement							
14. Size of casing (in. O.D.)				<i>5 1/2"</i>			
15. Top of liner (ft.)							
16. Setting depth (ft.)				<i>8786'</i>			
17. Number of centralizers used				<i>70</i>			
18. Hrs. Waiting on cement before drill-out							
1 st Slurry	19. API cement used: No. of sacks ▶			<i>534</i>			
	Class ▶			<i>60:40 POZ:C</i>			
	Additives ▶			<i>Remarks #1</i>			
2 nd Slurry	No. of sacks ▶			<i>833</i>			
	Class ▶			<i>50:50 POZ:C</i>			
	Additives ▶			<i>Remarks #2</i>			
3 rd Slurry	No. of sacks ▶						
	Class ▶						
	Additives ▶						
1 st	20. Slurry pumped: Volume (cu. ft.) ▶			<i>1864</i>			
	Height (ft.) ▶			<i>10758</i>			
2 nd	Volume (cu. ft.) ▶			<i>1277</i>			
	Height (ft.) ▶			<i>7370</i>			
3 rd	Volume (cu. ft.) ▶						
	Height (ft.) ▶						
Total	Volume (cu. ft.) ▶			<i>3141</i>			
	Height (ft.) ▶			<i>18128</i>			
21. Was cement circulated to ground surface (or bottom of cellar) outside casing?				<i>Yes</i>			
(22). Remarks #1 4% MPA-5 + 10 #/sk BA-90 + 0.5% BA-10A + 5% A-10 + 0.8% ASA-301 + 3% Sodium Metasilicate + 1.75% R-3 + 0.005 #/sk Static Free + 0.005 gps FP-13L Remarks #2 0.3% MPA-250 + 1.5% CD-32 + 1% Sodium Metasilicate + 0.5% R-3 + 2% b/w Sodium Chloride + 0.005 #/sk Static Free + 0.005 gps FP-13L <i>Circulated 35 bbls or 56 sacks to surface</i>							

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.)								
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Phillip M. Bowen- Field Specialist

Name and title of cementer's representative

Baker Hughes Oilfield Ops, INC

Cementing Company

Signature

2929 Allen Parkway, Suite 2100

Address

Houston,

City

Texas

State

77019

Zip Code

(713) 439-8600

Tel: Area Code

Number

09-12-2015

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.

Colleen Beda

Typed or printed name of operator's representative

Regulatory Specialist

Title

Colleen Beda

Signature

600 N. DAIRY ASHFORD

Address

HOUSTON TX 77079

City

State

Zip Code

281-206-5219

Tel.: Area Code

Number

11-1-15

Date: mo. day yr.

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F. Intermediate and production casing. For specific technical requirements, operators should consult Statewide Rule 13 (3) and (4).

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Tracking No.: 147074

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: CONOCOPHILLIPS COMPANY	District No. 08	Completion Date: 10/16/2015
Field Name MARTIN (CONSOLIDATED)	Drilling Permit No. 808508	
Lease Name UNIVERSITY UA	Lease/ID No. 37642	Well No. 5
County ANDREWS	API No. 42- 003-47198	

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). _____

Colleen Reda

Signature

CONOCOPHILLIPS COMPANY

Name (print)

Regulatory Specialist

Title

(281) 206-5219

Phone

12/04/2015

Date

-FOR RAILROAD COMMISSION USE ONLY-



COMPENSATED PHOTO DENSITY
COMPENSATED NEUTRON
SPECTRAL GAMMA RAY

COMPANY		CONOCOPHILLIPS COMPANY	
WELL		UNIVERSITY -UA- #5	
FIELD		MARTIN (CONSOLIDATED)	
PROVINCE/COUNTY		ANDREWS	
COUNTRY/STATE		U.S.A. / TEXAS	
LOCATION		1270' FNL & 1195' FEL A-U344	
PERMIT NUMBER		808508, SEC 2, BLK 11, UL CO SUR	
SEC 5	TWP 2N	RGE	Other Services
Latitude	32.14538056	DUAL LATEROLOG	MICRO LATEROLOG
Longitude	-102.738725	COMPENSATED SONIC	
API Number	42-003-47198		
Permanent Datum GL, Elevation 3273 feet			Elevations: feet
Log Measured From KB			KB 3287.00
Drilling Measured From KB (14')			DF 3286.00
			GL 3273.00
Date	11-SEP-2015		
Run Number	ONE		
Service Order	8067-129113096		
Depth Driller	8794.00	feet	
Depth Logger	8784.00	feet	
First Reading	8734.67	feet	
Last Reading	200.00	feet	
Casing Driller	1382.70	feet	
Casing Logger	1384.00	feet	
Bit Size	7.875	inches	
Hole Fluid Type	BRINE		
Density / Viscosity	10.00 lb/USg	42.00 sec/qt.	
PH / Fluid Loss	9.50	4.80 ml/30Min	
Sample Source	ACTIVE PIT		
Rm @ Measured Temp	0.044 @ 87.6	ohm-m	
Rmf @ Measured Temp	0.033 @ 87.6	ohm-m	
Rmc @ Measured Temp	0.055 @ 87.6	ohm-m	
Source Rmf / Rmc	CALC	CALC	
Rm @ BHT	0.031 @129.0	ohm-m	
Time Since Circulation	10 HOURS		
Max Recorded Temp	129.00	deg F	
Equipment / Base	13240	4352	
Recorded By	AHMED SHEHATA		
Witnessed By	AARON CORWIN		

BOREHOLE RECORD

Last Edited: 11-SEP-2015 01:02	
Bit Size inches	Depth From feet
12.250	0.00
7.875	1382.70
Casing Record	
Type	Shoe Depth feet
SURFACE	1382.70
	Weight pounds/ft
	24.00

REMARKS

ALL WEATHERFORD DEPTH CONTROL PROCEDURES FOR FIRST RUN IN HOLE WERE FOLLOWED.

- RIG UP LENGTH AT SURFACE: 157 FT
- RIG UP LENGTH AT BOTTOM: 156.3 FT

TOOLS RAN: MIS-E, MSS, MIS-E, MMR, MLE, MUG, MPD, MDN, MLG, MSG, MCG, MBE, CBH
HARDWARE RAN: MIS-E 0.5" STANDOFF
MIS-E 0.5" STANDOFF
MUG 0.5" STANDOFF

2.71 g/cm³ DENSITY MATRIX USED TO CALCULATE POROSITY

ALL INTERVALS LOGGED AND SCALED PER CUSTOMER'S REQUEST
BOREHOLE SIZE AND RUGOSITY AFFECTED LOG QUALITY
DENSITY CALIPER RUN INSIDE OF CASING TO VERIFY CALIBRATION
GRNEU RUN TO SURFACE AS PER CLIENT REQUEST

ANNUAL VOLUME CALCULATED USING 5.5 INCHES PRODUCTION CASING
ANNUAL VOLUME: 2970 CUBIC FT
TOTAL VOLUME: 3480 CUBIC FT

WATER LEVEL OBSERVED AT 856 FT

A SHARP NOISE IN THE SP WAS OBSERVED AT 7900 FT, 7350 FT AND 6730 DUE TO SIMULTANEOUS OPERATIONS BY THE RIG
CREW. SERVICE ELECTRODE WAS MOVED AFTER 7350 TO AVOID THIS NOISE

SERVICE ORDER #: 8067-129113096
RIG: PRECISION DRILLING 194

ENGINEER: AHMED SHEHATA
OPERATOR: CODY DORSEY, ANDREW SPENCE
SALES ENGINEER: BRIAN VACCHIANO

Groundwater
Advisory Unit

GROUNDWATER PROTECTION DETERMINATION

Date April 30, 2012

GAU File No.: SC- 15176

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

API Number 00300000

Attention: KATHY THOMASSON

RRC Lease No. 000000

SC_172232_00300000_000000_15176.pdf

CONOCOPHILLIPS CO
PO BOX 51810
MIDLAND TX 79710

--Measured--

1195 ft FEL

1270 ft FNL

MRL: SURVEY

Digital Map Location:

X-coord/Long 102.73900

Y-coord/Lat 32.14540

Datum 83

Zone

P-5# 172232

County ANDREWS

Lease & Well No. UNIVERSITY UA #5&ALL (6)

Purpose ND

Location SUR-UL, BLK-11, SEC-24, -- [TD=7500], [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 250 feet and the ZONE from 925 feet to 1300 feet must be protected.

This recommendation is applicable to all wells within a radius of 1000 FEET feet of this location.

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).

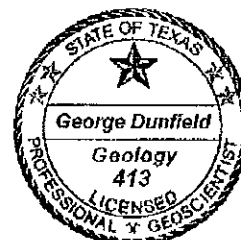
If you have any questions, please contact us at 512-463-2741, gau@rrc.state.tx.us, or by mail.

Sincerely,


Digitally signed by George Dunfield
DN: c=US, st=TEXAS, l=Austin,
o=Railroad Commission of Texas,
cn=George Dunfield,
email=george.dunfield@rrc.state.tx.us
Date: 2012.04.30 12:17:44 -05'00'

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 4/30/2012
Note: Alteration of this electronic document will invalidate the digital signature.

