

ROAD COMMISSION OF TEXAS

Oil AND Gas Division

FORM G-1
Rev. 4/1/83

API No. 42-443-31299

7. RRC District NO.

7C

8. RRC GAS ID No.

Gas Well Back Pressure Test, Completion or Recompletion Report, and Log

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

2. LEASE NAME
University 4

9. Well No.
9

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

RRC Operator No.
172232

10. County of well site
Terrell

4. ADDRESS

P O Box 51810, Midland, Texas 79710

11. Purpose of filing

Initial Potential ☒

Retest ☐

Reclass ☐

Well record only ☐
(Explain in remarks)

5. LOCATION (Section, Block, and Survey)

Sec. 4, Blk 36, UL

5b. Distance and direction to nearest town in this county.

22 miles SW from Sheffield

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

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
#

13. Pipe Line Connection
Southern Union Gas

14. Completion or recompletion date

4/18/2009

15. Any condensate on hand at time of workover
or recompletion? ☒ Yes ☐ No

16. Type of Electric or other Log Run

CN/TDL/GR

Section I

GAS MEASUREMENT DATA

Date of Test 5/9/2009		Gas Measurement Method (Check One) Orifice Meter <input checked="" type="checkbox"/> Flange Taps <input checked="" type="checkbox"/> Positive Choke <input type="checkbox"/> Orifice Vent Meter <input type="checkbox"/> Pitot Tube <input type="checkbox"/> Critical-flow Prover <input type="checkbox"/>						Gas produced during test 1332 MCF		
RUN No.	Line Size	Orif. or Choke Size	24 Hr. Coeff. Orif. or Choke	Static Pm or Choke Press	Diff. hw	Flow Temp. °F	Factor F _{tf}	Gravity Factor F _g	Compress Factor F _{pv}	Volume MCF/DAY
1.	3.0680	0.2187	32.790	112.0	1.7	75	0.9859	0.9220	1.012	444
2.										
3.										
4.										

Section II

FIELD DATA AND PRESSURE CALCULATION

Gravity (Dry Gas) 0.691		Gravity Liquid Hydrocarbon 52.80		Deg. API	Gas-Liquid Hydro Ratio 18500 CF/Bbl		Gravity of Mixture G _{mhc} 0.706		Avg. Shut-in Temp. 134 °F		Bottom Hole Temp. 200 F @ 10784 (Depth)	
$(D_{eff})^{8/3} = 6.307$			$\sqrt{T_f} = \sqrt{601} = 24.53$			$\sqrt{GL} = \sqrt{0.706 \times 10784} = 87.24$						
$C = \frac{1118 \times (D_{eff})^{8/3}}{\sqrt{T_f}} = \frac{1118 \times 6.307}{24.53} = 287$			$\frac{\sqrt{GL}}{C} = \frac{87.2}{287} = 0.3034$									
RUN No.	Time of Run Min.	Choke Size	Wellhead Press. PSIA P _w	Wellhead Flow Temp. °F	P _w ² (Thousands)	R	R ² (Thousands)	P ₁	P _w / P ₁			
Shut-In	1440		1664	68	2768.9							
1.	4320	0.2187	314	83	98.6	134.7	18.2	341	0.919			
2.												
3.												
4.												
RUN No.	F	K	S = $\frac{1}{z}$	E ^{ks}	P _f and P _s	P _f ² and P _s ² (Thousands)	P _f ² - P _s ² (Thousands)	Angle of Slope 45.0 .. n ... 1.000 .. Absolute Open Flow 461 MCF/DAY				
Shut-In		0.2400	1.258	1.352	2250.5	5064.9						
1.	0.960	0.2275	1.052	1.270	434.0	188.4	4876.5					
2.												
3.												

WELL TESTER'S CERTIFICATION: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I conducted or supervised this test and that data and facts shown in section I and II above are true, correct, and complete, to the best of my knowledge. Bottomhole temperature and the diameter and length of flow string were furnished by the operator of the well.

Alva Franco
Signature: Well Tester

Well Testing Inc.

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 I prepared or supervised and directed this report, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Alva Franco
Signature: Operator's representative

Alva Franco

Reg. Specialist

5/19/2009

Tel: 432/688-6906

Title

Date

A/C Number

SECTION III		DAI		WELL COMPLETION AND LOG (Not Required on Retest)	
17. Type of Completion:				18. Permit to Drill, Plug Back or Deepen	
New Well <input checked="" type="checkbox"/> Deepening <input type="checkbox"/> Plug Back <input type="checkbox"/> Other <input type="checkbox"/>				DATE 10/07/2008 PERMIT NO. 666636	
19. Notice of Intention to Drill this well was filed in Name of				Rule 37	
ConocoPhillips Company				Exception	
20. Number of producing wells on this lease in this field (reservoir) including this well				Water Injection Permit	
5				PERMIT NO.	
21. Total number of acres in this lease				Salt Water Disposal Permit	
640				PERMIT NO.	
22. Date Plug Back, Deepening, WorkOver or Drilling Operations:				Other	
Commenced 10/28/2008 Completed 12/14/2008				PERMIT NO.	
23. Distance to nearest well, Same Lease & Reservoir					
1204					

24. Location of well, relative to nearest lease boundaries of lease on which this well is located		2380 Feet From South Line and 1700 Feet from East Line of the University 4 Lease	
25. Elevation (DF, RKB, RT, GR, ETC.)		26. Was directional survey made other than inclination (Form W-12)?	
2706 GR		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
27. Top of Pay	28. Total Depth	29. P.B. Depth	30. Surface Casing Determined by:
9962'	12,079'	11,800'	Field <input checked="" type="checkbox"/> Rules <input type="checkbox"/> Recommendation of T.D.W.R. <input checked="" type="checkbox"/> Railroad Commission (Special) <input type="checkbox"/>
31. Is well multiple completion?		32. If multiple completion, list all reservoir names (completions in this well) and Oil Lease or Gas ID No.	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		FIELD & RESERVOIR	
34. Name of Drilling Contractor		35. Cementing Affidavit Attached?	
Helmerich & Payne, Inc		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

36. 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.
13 3/8"	48#, H-40	1970'		1930 sx EC/HC	17 1/2"	450' TS	3286
9 5/8"	40#, N-80	5615'		1120 sx C	12 1/4"	Surface	2424
7"	26#, P-110	10701'		900 sx VS/H	8 1/2"	8065' TS	1104
							270

37. LINER RECORD				
Size	Top	Bottom	Sacks Cement	Screen
4 1/2"	10471	12088	250	10,488- 12,088

38. TUBING RECORD			39. Producing Interval (this completion) Indicate depth of perforation or open hole	
Size	Depth Set	Packer Set	From	To
2 3/8"	10,897'		11,095'	11,607'

40. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
Depth Interval	Amount and Kind of Material Used
11,058'-11,163'	Frac w/63363# Versaprop Proppant
10099'-10,977'	Frac w/129529#Versaprop Proppant
9,962'-10,090'	Frac/Acid w/2000 G 20%acid & 20,000 G 20% CEA Acid & w/4000 G ZCA acid *

41. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)			
Formations	Depth	Formations	Depth
Wolfcamp	7658'		
Penn Sand	10559'		
Strawn	11738'		

REMARKS ***Fish in the hole @11,088'**



"Well Testing"
Wire Line Service Company
PO Box 1263 - Monahans, TX 79756
Phone - (915) - 943-2556, Fax - (915) - 943-7835
1-800-348-3932

COMPANY NAME Conoco Phillips
(as per RRC Records)
LEASE NAME University
(as per RRC Records)
FIELD NAME Deer Canyon
WELL NUMBER 4-9
FORMATION Penn
COUNTY Tennil
STATE Texas
TYPE OF TEST Initial

(1 OR 4 POINT OR REASON FOR TEST) New Well Completion

5/8/2009	5/9/2009	5/10/2009

	24 hr	48 hr	72 hr
OIL	44	24	34
WATER	8	10	18
GAS	465	444	285

GRAVITY 0.7679

GRAVITY 0.6913

60r 18500
2187

CHOKE SIZE	<u>14/64"</u>	PLUG BACK DEPTH	<u>11.088"</u>
FLOWING TUBING PRESSURE	<u>300</u>	TOTAL DEPTH	<u>12.079"</u>
BOTTOM HOLE STATIC PRESSURE	<u>4300 psi (estimate)</u>	BOTTOM HOLE TEMPERATURE	<u>200° F</u>
SHUT IN TUBING PRESSURE	<u>1850 psi</u>	SHUT IN WELLHEAD TEMP	<u>68° F</u>
DIFFERENTIAL PRESSURE	<u>39"</u>	FLOWING WELL TEMP	<u>83° F</u>
SALES LINE PRESSURE	<u>112 psi</u>	METER RUN TEMPERATURE	<u>75° F</u>
TUBING SIZE (WEIGHT)	<u>2 1/8", 4.7#/ft, L-80</u>	METER RUN SIZE	<u>3"</u>
END OF TUBING	<u>10.897"</u>	ORIFICE PLATE SIZE	<u>2 1/8"</u>
PACKER DEPTH	<u>N/A</u>	DATE COMPLETED	<u>9/17/08 (Penn)</u>
CASING SIZE (WEIGHT)	<u>4 1/2", 13.5#/ft, P-110</u>	TEST PERIOD	<u>4/30-5/14/2009</u>
TOP PERF	<u>9.962"</u>	FIRST SALE DATE	<u>2/7/2009</u>
LOWER PERF	<u>11.807"</u>	GAS PURCHASER	<u>Southern Union Gas</u>

** NOTE

COPY OF OIL AND GAS ANALYSIS

Condensate

\\nfst1users\jrenno\My Document

Gas

\\nfst1users\jrenno\My Document

COPY OF WELLBORE SKETCH

P:\temp\WBS\University #4-9 WBS

**GAS WELL
CLASSIFICATION REPORT**

READ INSTRUCTIONS ON BACK

1. OPERATOR NAME (Exactly as shown on Form P-5 Organization Report) ConocoPhillips Co.		3. RRC DISTRICT NO. 7C	4. OIL LEASE NO. OR GAS WELL ID NO.																												
2. MAILING ADDRESS 4001 Penbrook Odessa, Tx. 79762		5. WELL NO. 9	6. API NO. 42- 443-31299																												
		7. COUNTY OF WELL SITE Terrell																													
8. FIELD NAME (as per RRC Records) Deer Canyon(Penn)		9. LEASE NAME University 4																													
10. LOCATION (Section, Block, and Survey) Sec.4,Blk.36,Abs.U64		11. PIPELINE CONNECTION OR USE OF GAS Southern Union Gas																													
<div style="display: flex; justify-content: space-between;"> <div style="width:48%;"> <p>I. PRODUCTION TEST AT RATE ELECTED BY OPERATOR (data on 24-hour basis)</p> <p>A. Date of Test <u>05/09/2009</u></p> <p>B. Gas Volume <u>444</u> (Mcf)</p> <p>C. Oil or Condensate Volume <u>24.00</u> (Bbl)</p> <p>D. Water Volume <u>10.00</u> (Bbl)</p> <p>E. Gas/Liquid Hydrocarbon Ratio <u>18500</u> (Cf/Bbl)</p> <p>F. Flowing Tubing Pressure <u>314.0</u> (psia)</p> <p>G. Choke Size <u>.2187</u> (in.)</p> <p>H. Casing Pressure _____ (psia)</p> <p>I. Shut-in Wellhead Pressure-- Tubing <u>1664.0</u> (psia)</p> <p>J. Separator Operating Pressure <u>112.0</u> (psia)</p> <p>K. Color of Stock Tank Liquid <u>yellow</u></p> <p>L. Gravity of Separator Liquid <u>52.80</u> °API</p> <p>M. Gravity of Stock Tank Liquid _____ °API</p> <p>N. Specific Gravity of the Gas (Air = 1) <u>0.691</u></p> </div> <div style="width:48%;"> <p>II. A.S.T.M. DISTILLATION OF LIQUID SAMPLE. Distillation test is required for gas wells ONLY if the producing gas-liquid hydrocarbon ratio is less than 100,000 CF/barrel.</p> <p>Date Liquid Sample Obtained <u>03/25/2009</u></p> <p>Where Obtained: <input checked="" type="checkbox"/> Separator <input type="checkbox"/> Stock Tank</p> <table style="width:100%;"> <thead> <tr> <th>% Over</th> <th>Temp. (deg. F)</th> <th>% Over</th> <th>Temp. (deg. F)</th> </tr> </thead> <tbody> <tr> <td>Initial Boiling Temp.</td> <td><u>110</u></td> <td>60</td> <td><u>382</u></td> </tr> <tr> <td>10</td> <td><u>183</u></td> <td>70</td> <td><u>463</u></td> </tr> <tr> <td>20</td> <td><u>215</u></td> <td>80</td> <td><u>552</u></td> </tr> <tr> <td>30</td> <td><u>245</u></td> <td>90</td> <td><u>703</u></td> </tr> <tr> <td>40</td> <td><u>277</u></td> <td>95</td> <td>_____</td> </tr> <tr> <td>50</td> <td><u>330</u></td> <td>End Point</td> <td><u>730</u></td> </tr> </tbody> </table> <p>Total Recovery <u>94.0</u> percent</p> <p>Residue <u>2.0</u> percent</p> <p>Loss <u>4.0</u> percent</p> </div> </div>				% Over	Temp. (deg. F)	% Over	Temp. (deg. F)	Initial Boiling Temp.	<u>110</u>	60	<u>382</u>	10	<u>183</u>	70	<u>463</u>	20	<u>215</u>	80	<u>552</u>	30	<u>245</u>	90	<u>703</u>	40	<u>277</u>	95	_____	50	<u>330</u>	End Point	<u>730</u>
% Over	Temp. (deg. F)	% Over	Temp. (deg. F)																												
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50	<u>330</u>	End Point	<u>730</u>																												
<p>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.</p> <p><u>05/19/2009</u></p> <p>DATE</p>		<p>RRC USE ONLY</p>																													
		<p>Mike Walters NAME (Type or Print)</p> <p><i>Mike Walters</i> SIGNATURE</p> <p>Compliance Coordinator TITLE</p> <p>Mike Walters CONTACT PERSON</p> <p>432-425-8175 PHONE NUMBER</p>																													

OPERATOR NAME AND ADDRESS, including city, state and zip

ConocoPhillips Co.
4001 Penbrook
Odessa, TX. 79762

**GAS WELL
STATUS REPORT**
RAILROAD COMMISSION OF TEXAS
Oil and Gas Division
P.O. Box 12967
Austin, Texas 78711-2967

Page 1 of 1

Operator P-5 Organization No.

G-10
rev. 7/95
PETCON 0897

7C

Test Period: 5/17-5/19/2009

Due Date:

Effective Date:

Reason for Filing

☐ Survey

☐ Retest

☒ Initial Test

Correction

GAS PRODUCED
MCF/DAY**

GAS SPEC.
GRAVITY

DATE TESTED
MO/DAY/YR

MARK X FOR
SHUT-IN WELL

RRC IDENT NO.

WELL NO.

CONDENSATE
PRODUCED
CONDENSATE
GRAVITY (API)

WATER PROD
BBL/DAY

X BOTTOMHOLE
PRESSURE PSIA

***SIWH
PRESSURE PSIA

***FLOWING
PRESSURE PSIA

Deer Canyon (Penn)
University 4

9

444 MCF

24.0 BBL

10 BBL

1664

0.691

52.8

314

MCF

BBL

BBL

BBL

MCF

BBL

BBL

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BBL

CERTIFICATION: I declare under penalty prescribed in Texas Natural Resources Code, Sec. 91.143, 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 herein are true, correct, and complete to the best of my knowledge.

Signature:

[Signature]

Title: Compliance Coordinator

Phone: 432-425-8175

Date: 05/19/2009

* AN ASTERISK PREPRINTED ON A SURVEY IDENTIFIES WELL SUBJECT TO COMMINGLING TEST REQUIREMENT

X AN "X" PREPRINTED ON A SURVEY IN THE BOTTOMHOLE PRESSURE BOX INDICATES A BOTTOMHOLE PRESSURE MUST BE REPORTED FOR THE WELL

** GAS PRODUCTION RATE, IN MCF, IS TO BE REPORTED FULL-WELL STREAM, INCLUDING CONDENSATE

*** PRESSURE FOR THE TEXAS HUGOTON FIELD IS REPORTED IN PSIG

RAILROAD COMMISSION OF TEXAS OIL AND GAS DIVISION

Form W-12
DBC1297 (1-1-71)

INCLINATION REPORT (One Copy Must Be Filed With Each Completion Report.)		
1. FIELD NAME (as per RRC Records or Wildcat) Deer Canyon (Penn)	2. LEASE NAME University 4	6. RRC District 7C
3. OPERATOR ConocoPhillips Company		7. RRC Lease Number. (Oil completions only)
4. ADDRESS P.O. Box 51810 Midland, TX 79710-1810		8. Well Number 9
5. LOCATION (Section, Block, and Survey) Sec. 4 Blk 36 UL		9. RRC Identification Number (Gas completions only)
		10. County Terrell

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 X100)	15. Course Displacement (feet)	16. Accumulative Displacement (feet)
11806	Tie to directional report from DDC				
11906	1.00	0.64052	1.12	1.12	1.12
12006	1.00	0.27772	0.48	0.48	1.60
12102	0.96	0.14010	0.24	0.23	1.83

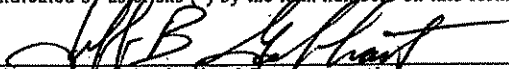
If additional space is needed, use the reverse side of this form.

17. Is any information shown on the reverse side of this form? ☒ yes ☐ no (See comments on the back)
18. Accumulative total displacement of well bore at total depth of 12102 elm feet = 1.83 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 1700 feet.
21. Minimum distance to lease line as prescribed by field rules 467 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.)

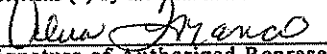
INCLINATION DATA CERTIFICATION

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.


 Signature of Authorized Representative
Jeff B. Gebhart
 Name of Person and Title (type or print)
Schlumberger
 Name of Company
 Telephone: 832 486-3253
 Area Code

OPERATOR CERTIFICATION

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.


 Signature of Authorized Representative
Alva Franco
 Name of Person and Title (type or print)
ConocoPhillips Company
 Operator
 Telephone: (432) 688-6906
 Area Code

Railroad Commission Use Only:

Approved By: _____ Title: _____ Date: _____

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

RECORD OF INCLINATION (Continued from reverse side)

[illegible]

If additional space is needed, attach separate sheet and check here.



REMARKS: The inclination data on this report is from a GPIT Survey. Please refer to the
directional reports from the scientific drilling and DDC for the survey data from
surface to 11800 MD.

- INSTRUCTIONS -

an inclination survey made by persons or concerns approved by the Commission shall be filed on a form prescribed by the Commission for each well drilled or deepened with rotary tools or when, as a result of any operation, the course of the well is changed. No inclination survey is required on wells that are drilled and completed as dry holes that are plugged and abandoned. Inclination surveys are required on re-entry of abandoned wells.) Inclination surveys must be made in accordance with the provisions of Statewide Rule 11.

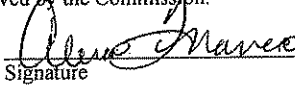
This report shall be filed in the District Office of the Commission for the district in which the well is drilled, by attaching one copy to each appropriate completion for the well. (except Plugging Report)

The Commission may require the submittal of the original charts, graphs, or discs, resulting from the surveys.

**CERTIFICATE OF COMPLIANCE
AND TRANSPORTATION AUTHORITY**

P-4
5/02
DBC0702

READ INSTRUCTIONS ON BACK

1. Field name exactly as shown on proration schedule Deer Canyon (Penn)		2. Lease name as shown on proration schedule University 4					
3. Current operator name exactly as shown on P-5 Organization Report ConocoPhillips Company		4. Operator P-5 no. 172232	5. Oil Lse/Gas ID no.	6. County Terrell	7. RRC district 7C		
8. Operator address including city, state, and zip code P.O. Box 51810 Midland, TX 79710-1810		9. Well no(s) (see instruction E) 9					
		10. Classification <input type="checkbox"/> Oil <input checked="" type="checkbox"/> Gas <input type="checkbox"/> Other (see instruction A)			11. Effective Date 04/30/2009		
12. Purpose of Filing. (Complete section a or b below.) (See instruction B and G) a. Change of: <input type="checkbox"/> operator <input type="checkbox"/> oil or condensate gatherer <input type="checkbox"/> gas gatherer <input type="checkbox"/> gas purchaser <input type="checkbox"/> gas purchaser system code <input type="checkbox"/> field name from: _____ <input type="checkbox"/> lease name from: _____ OR b. New RRC Number for: <input type="checkbox"/> oil lease <input checked="" type="checkbox"/> gas well Due to: <input type="checkbox"/> new completion or recompletion <input type="checkbox"/> reclass oil to gas <input type="checkbox"/> reclass gas to oil <input type="checkbox"/> other well (specify) _____ <input type="checkbox"/> consolidation, unitization, or subdivision (oil lease only)							
13. Authorized GAS WELL GAS or CASINGHEAD GAS Gatherers and/or Purchaser(s). (See instruction G).							
Gatherer	Purchaser	Name of GAS WELL GAS or CASINGHEAD GAS Gatherer(s) or Purchaser(s) As Indicated in Columns to the Left (Attach an additional sheet in same format if more space is needed)			Purchaser's RRC Assigned System Code	Percent of Take	Full-well stream
X		ConocoPhillips Company			CONPH	100%	
	X	Southern Union Gas Servicesm, Ltd.			805477	100%	
14. Authorized OIL or CONDENSATE Gatherer(s). (See instruction G)				RRC USE ONLY			
Name of OIL or CONDENSATE Gatherer(s) - List Highest Volume Gatherer First (Attach an additional sheet in same format if more space is needed)			Percent of Take	Reviewer's initials: _____			
Sentinel Transportation, LLC			100%	Approval date: _____			
15. PREVIOUS OPERATOR CERTIFICATION FOR CHANGE OF OPERATOR P-4 FILING. Being the PREVIOUS OPERATOR, I certify that operating responsibility for the well(s) designated in this filing, located on the subject lease has been transferred in its entirety to the above named Current Operator. I understand, as Previous Operator, that designation of the above named operator as Current Operator is not effective until this certificate is approved by the Commission.							
Name of Previous Operator			Signature <input type="checkbox"/> Authorized Employee of previous operator <input type="checkbox"/> Authorized agent of previous operator (see instruction G)				
Name (print)			Date				
Title			Phone with area code				
16. CURRENT OPERATOR CERTIFICATION. By signing this certificate as the Current Operator, I certify that all statements on this form are true and correct and I acknowledge responsibility for the regulatory compliance of the subject lease including plugging of well(s) pursuant to Rule 14. I further acknowledge that I assume responsibility for the physical operation, control, and proper plugging of each well designated in this filing. I also acknowledge that I will remain designated as the Current Operator until a new certificate designating a new Current Operator is approved by the Commission.							
Alva Franco			Signature 				
Name (print)			Date				
Regulatory Specialist			<input checked="" type="checkbox"/> Authorized Employee of current operator <input type="checkbox"/> Authorized agent of current operator (see instruction G)				
Title			Date				
alva.franco@conocophillips.com			(432)688-6906				
E-mail Address (optional)			Phone with area code				

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

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

1. Operator's Name (As Shown on Form P-5, Organization Report) ConocoPhillips Company	2. RRC Operator No. 172232	3. RRC District No. 7C	4. County of Well Site Terrell
5. Field Name (Wildcat or Exactly as Shown on RRC Records) Deer Canyon (Penn)	6. API No. 42- 443-312.99		7. Drilling Permit No. 666636
8. Lease Name University 4	9. Rule 37 Case No.	10. Oil Lease/Gas ID No.	11. Well No. 9

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12. Cementing Date				12/12/2008			
13. *Drilled hole size				4 1/2"			
*Est. % wash or hole enlargement							
14. Size of casing (in. O.D.)				4 1/2"			
15. Top of liner (ft)				10471'			
16. Setting depth (ft)				12088'			
17. Number of centralizers used				20			
18. Hrs. waiting on cement before drill-out				8 hrs			
1st Slurry	19. API cement used: No. of sacks ▶			150			
	Class ▶			PREM C			
	Additives ▶			REMARKS			
2nd Slurry	No. of sacks ▶			100			
	Class ▶			PREM C			
	Additives ▶			REMARKS			
3rd Slurry	No. of sacks ▶						
	Class ▶						
	Additives ▶						
1st	20. Slurry pumped: Volume (cu.ft.) ▶			162			
	Height (ft.) ▶			1615			
2nd	Volume (cu.ft.) ▶			108			
	Height (ft.) ▶			543			
3rd	Volume (cu.ft.) ▶						
	Height (ft.) ▶						
Total	Volume (cu.ft.) ▶			270			
	Height (ft.) ▶			2158			
21. Was cement circulated to ground surface (or bottom of cellar) outside casing?				YES			
22. Remarks LEAD ADD. .2 % HALAD R-23, .35 % HR-800, .5 % LAP-1, .3% CFR-3, .25 LBM D-AIR 3000 TAIL ADD. .2 % HALADR-23, .32 % HR-800, .5 % LAP-1, .3 % CFR-3 WE CIRCULATED OUT 10 BBLs OF CEMENT OFF THE TOP OF THE TOOL						Sales Order 6341095 Customer Name CONOCO/PHILLIPS COMPANY EBUS Lease University Well Number 4-9 Terrell County	

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

Form W-15
Cementing Report
Rev. 4/1/83
HAL1198

RAILROAD COMMISSION OF TEXAS

Oil and Gas Division

1. Operator's Name (As Shown on Form P-5, Organization Report) ConocoPhillips Company	2. RRC Operator No. 172232	3. RRC District No. 7C	4. County of Well Site Terrell
5. Field Name (Wildcat or Exactly as Shown on RRC Records) Deer Canyon (Penn)		6. API No. 42-443-31299	7. Drilling Permit No. 666636
8. Lease Name University 4	9. Rule 37 Case No.	10. Oil Lease/Gas ID No.	11. Well No. 9

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12. Cementing Date				11/17/2008			
13. *Drilled hole size				8 1/2"			
*Est. % wash or hole enlargement							
14. Size of casing (in. O.D.)				7"			
15. Top of liner (ft)							
16. Setting depth (ft)				10701'			
17. Number of centralizers used				31			
18. Hrs. waiting on cement before drill-out				10 hrs			
1st Slurry	19. API cement used: No. of sacks ▶			600			
	Class ▶			versacem			
	Additives ▶			see remarks			
2nd Slurry	No. of sacks ▶			300			
	Class ▶			halcem			
	Additives ▶			see remarks			
3rd Slurry	No. of sacks ▶						
	Class ▶						
	Additives ▶						
1st	20. Slurry pumped: Volume (cu.ft.) ▶			774			
	Height (ft.) ▶			5148			
2nd	Volume (cu.ft.) ▶			330			
	Height (ft.) ▶			2195			
3rd	Volume (cu.ft.) ▶						
	Height (ft.) ▶						
Total	Volume (cu.ft.) ▶			1104			
	Height (ft.) ▶			7343			
21. Was cement circulated to ground surface (or bottom of cellar) outside casing?				NO			
22. Remarks 1st Slurry: 600 SKS.VERSACEM,0.4%HR-800. 2ND Slurry 300 SKS.,0.5% LAP-1, 0.15%CFR-3,W/O DEFOAMER.,0.2% HR-800,0.2% HALAD-23						Sales Order 6302121 Customer Name CONOCO/PHILLIPS Lease UNVIERSITY 4 Well Number #9 TERRELL County	

OVER ►

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

Form W-15
Cementing Report
Rev. 4/1/83
HAL1189

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

1. Operator's Name (As Shown on Form P-5, Organization Report) ConocoPhillips Company	2. RRC Operator No. 172232	3. RRC District No. 7C	4. County of Well Site Terrell
5. Field Name (Wildcat or Exactly as Shown on RRC Records) Deer Canyon (Penn)	6. API No. 42-443-31299		7. Drilling Permit No. 666636
8. Lease Name University 4	9. Rule 37 Case No.	10. Oil Lease/Gas ID No.	11. Well No. 9

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12. Cementing Date		10/29/2008					
13. *Drilled hole size		17 1/2"					
*Est. % wash or hole enlargement							
14. Size of casing (in. O.D.)		13 3/8"					
15. Top of liner (ft)							
16. Setting depth (ft)		1970					
17. Number of centralizers used		12					
18. Hrs. waiting on cement before drill-out		24 hrs					
1st Slurry	19. API cement used: No. of sacks ►	1400					
	Class ►	ECONOCEM					
	Additives ►	see remarks					
2nd Slurry	No. of sacks ►	530					
	Class ►	HAL-CEM-C					
	Additives ►	see remarks					
3rd Slurry	No. of sacks ►						
	Class ►						
	Additives ►						
1st	20. Slurry pumped: Volume (cu.ft.) ►	2576					
	Height (ft.) ►	3979					
2nd	Volume (cu.ft.) ►	710					
	Height (ft.) ►	1096					
3rd	Volume (cu.ft.) ►						
	Height (ft.) ►						
Total	Volume (cu.ft.) ►	3286					
	Height (ft.) ►	5075					
21. Was cement circulated to ground surface (or bottom of cellar) outside casing?		NO					
22. Remarks 1st Slurry-1400 SKS. ECONOCEM. 3% SALT, 0.25 LBM. PHENO-SEAL 2ND Slurry 530 SKS. HALCEM, 1% C.C., 0.25 PHENO-SEAL TOPPED OUT WITH 150 SKS OR 35 BBL TO SURFACE.						Sales Order 6269232 Customer Name CONCO PHILLIPS Lease UNIVERSITY Well Number # 4-9 TERRELL County	

OVER ►

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

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

1. Operator's Name (As Shown on Form P-5, Organization Report) ConocoPhillips Company	2. RRC Operator No. 172232	3. RRC District No. 7C	4. County of Well Site Terrell
5. Field Name (Wildcat or Exactly as Shown on RRC Records) Deer Canyon (Penn)	6. API No. 42-443-31249	7. Drilling Permit No. 666636	
8. Lease Name University 4	9. Rule 37 Case No.	10. Oil Lease/Gas ID No.	11. Well No. 9

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12. Cementing Date			11/2/2008				
13. *Drilled hole size			12 1/4"				
*Est. % wash or hole enlargement							
14. Size of casing (in. O.D.)			9 5/8"				
15. Top of liner (ft)							
16. Setting depth (ft)			5615'				
17. Number of centralizers used			35				
18. Hrs. waiting on cement before drill-out			24. hrs				
1st Slurry	19. API cement used: No. of sacks ▶		850				
	Class ▶		C				
	Additives ▶		REMARKS				
2nd Slurry	No. of sacks ▶		270				
	Class ▶		C				
	Additives ▶		REMARKS				
3rd Slurry	No. of sacks ▶						
	Class ▶						
	Additives ▶						
1st	20. Slurry pumped: Volume (cu.ft.) ▶		2065				
	Height (ft.) ▶		6593				
2nd	Volume (cu.ft.) ▶		359				
	Height (ft.) ▶		1146				
3rd	Volume (cu.ft.) ▶						
	Height (ft.) ▶						
Total	Volume (cu.ft.) ▶		2424				
	Height (ft.) ▶		7739				
21. Was cement circulated to ground surface (or bottom of cellar) outside casing?			YES				
22. Remarks 1ST Slurry:C+.25LBM PHENO-SEAL+.2% D-AIR 3000 2ND Slurry:PREMIUM PLUS C				Sales Order 6288250 Customer Name CONOCO/PHILLIPS COMPANY EBUS Lease UNIVERSITY 4 Well Number 9 Terrell County			

PLEASE
DO NOT STAPLE

DEPTH () ABLE-QUALITY GROUND WATER T PROTECTED

PLEASE READ ALL INSTRUCTIONS

The information requested is essential in order for this agency to provide an appropriate response. Please allow for receipt of this form in our offices at least two weeks before your operation begins. Due to the volume of these requests, at times, it may be difficult for us to handle telephone inquiries. Complete, keep the bottom sheet (goldenrod) for your files, and mail the top 3 sheets of the 4-sheet set of carbon-backed forms with a map to the address below. One sheet bearing our response will be returned to you. Another will be sent to the appropriate district office of the Railroad Commission. Individuals are entitled to request and review their personal information that the agency gathers on its forms. They may also have any errors in their information corrected. To review such information, contact us at 512/239-3262. If you have questions on how to fill out this form or about the Surface Casing program, please contact us at 512/239-0515.

Surface Casing - MC 151
TCEQ
P.O. Box 13087
Austin, TX 78711-3087

Date 7/14/08

TCEQ File No.: SC-

1334

Chris Gustartis (832) 486-2463

Name of person preparing this request & phone No. (with area code)

ConocoPhillips Co.

Company (operator's name as on RRC form W-1)

P.O. Box 2197, WL2-12038

Mailing Address

Houston, Tx. 77252

City and State

ZIP Code

FOR TCEQ USE ONLY

ALWAYS INCLUDE A MAP SHOWING YOUR WELL SITE AND ALL SURROUNDING SURVEYS

COUNTY <u>Terrell</u>	Survey Name <u>University Lands</u>
Block No. <u>36</u> Township _____	Section or Survey No. <u>4</u> (or) Lot No. _____
Abstract No. A- _____	LEASE Name <u>University 4</u> Well No. <u>9</u>
Distances, in feet, and directions measured at right angles from each of two intersecting (NOT LEASE LINES) <u>2300</u> feet from <u>South</u> line and <u>1700</u> feet from <u>East</u> line.	
Distance (in miles) and direction from a nearby town in this County (name the town) <u>22 miles SW from Sheffield</u>	
THE ABOVE INFORMATION IN THIS BLOCK MUST BE COMPLETE AND CORRECT	
API # _____	RRC Lease No. _____ RRC Dist. No. <u>7C</u>
GPS Coord. (long/lat or X-Y state plane) <u>Y= 983395.04</u>	<u>X=1020669.53</u> NAD <u>27</u>
Elevation <u>2706</u>	Total Depth <u>13000</u> Geologic Fm. at T.D. <u>Strawn/Penn</u>
Purpose of the Request: <input checked="" type="checkbox"/> New Drill <input type="checkbox"/> Re-entry <input type="checkbox"/> Plug & Abandon <input type="checkbox"/> Other (specify) _____	
Is this an amended request? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Previous File No. for this well: SC- _____	
<input type="checkbox"/> Log included of same or nearby well (The applicable type of well log that shows the aquifers.) Please provide a location map or API# for attached log.	

ALWAYS attach the electric log of any well that is to be reentered.

Additional remarks: _____

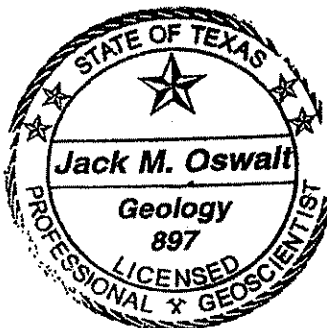
To protect usable-quality ground water at this location, the TEXAS COMMISSION ON ENVIRONMENTAL QUALITY recommends:

CO-TERRELL, SUR~UL, BLK~36, SEC~4, LSE-UNIVERSITY 4, #6/1200

The interval from the land surface to 20 feet below the base of the Cretaceous-age beds must be protected. The base of the Cretaceous is estimated to occur at a depth of 1200 feet.

Very truly yours,

Jack M. Oswalt, P.G.



July 21, 2008

Date

typed by TCEQ

Geologist, Surface Casing, TCEQ

NOTE: Unless stated otherwise, this recommendation is intended to apply only to the subject well and not for area-wide use. Approval of the well-completion methods for protection of this ground water falls under the jurisdiction of the Railroad Commission of Texas. This recommendation is intended for normal drilling, production, and plugging operations only. It does not apply to saltwater disposal operations into a nonproductive zone (RRC Form W-14).

FOLD

TYPE OR PRINT IN INK

FOLD

DO NOT WRITE HERE
FOR TCEQ USE ONLY



Scientific Drilling

Scientific Drilling International, Inc.

2034 Trade Drive • Midland, Texas 79706

P.O. Box 9699 • Midland, Texas 79708

Tel: 432-563-1339 • Fax: 432-697-0324

15 December 2008

Pam Johns

Railroad Commission of Texas

Oil & Gas Division

P.O. Box 12967

Austin, Texas 78711

COPY

Subject: Company: ConocoPhillips
Lease Name: University 4, Well #9
RRC Lease ID No.: Not Assigned
Field Name: Deer Canyon
Survey Co.: UL
County: Terrell
API No: 42-443-31299

Enclosed, please find the original and one copy of the survey performed on the above referenced well by Scientific Drilling International (P-5 No. 758300). Other information required by your office is as follows:

<u>Name & Title of Surveyor</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
Angel Madrid Field Technician	0'-10082'	11/07/08	Keeper Gyro
Jason Corley Field Technician	10110'-10646'	11/07/08-11/17/08	MWD

A Certified plat on which the bottom hole location is oriented to the surface location is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Regards,

Becky Wharton

Enclosures

cc:



State of Texas
County of Midland

I, Angel Madrid, certify that; I am employed by Scientific Drilling International; that I did on the day(s) of 11/07/08 through 11/07/08 conduct or supervise the taking of a Keeper Gyro survey from a depth of 0 feet to a depth of 10082 feet; that the data is true, correct, complete and within the limitations of the tool as set forth by Scientific Drilling International; that I am authorized and qualified to make this report; that this survey was conducted at the request of ConocoPhillips for the University 4 #9 Well, API# 42-443-31299 in Terrell County, Texas; and that I have reviewed this report and find that it conforms to the principals and procedures as set forth by Scientific Drilling International.


Field Technician



State of Texas
County of Midland

I, Jason Corley, certify that; I am employed by Scientific Drilling International; that I did on the day(s) of 11/7/2008 through 11/17/2008 conduct or supervise the taking of a MWD survey from a depth of 10110 feet to a depth of 10646 feet; that the data is true, correct, complete and within the limitations of the tool as set forth by Scientific Drilling International; that I am authorized and qualified to make this report; that this survey was conducted at the request of Conoco Phillips for the University 4 #9 Well, API# 42-443-31299 in Terrell County, Texas; and that I have reviewed this report and find that it conforms to the principals and procedures as set forth by Scientific Drilling International.

Jason Corley
Field Technician



Scientific Drilling International Survey Report

Company: CONOCOPHILLIPS **Date:** 12/15/2008 **Time:** 19:08:46 **Page:** 1
Field: Deer Canyon **Co-ordinate(NE) Reference:** Site: Terrell County, Texas, Grid North
Site: Terrell County, Texas **Vertical (TVD) Reference:** SITE 0.0
Well: University 4 #9 **Section (VS) Reference:** Well (0.00N,0.00E,208.80Azi)
Wellpath: VH - Job #32K1108890 **Survey Calculation Method:** Minimum Curvature **Db:** Sybase

Survey: 11/07/08 **Start Date:** 11/07/2008
Company: Scientific Drilling International **Engineer:** Madrid w/GeoGyro
Tool: Keeper, Keeper Gyro **Tied-to:** From Surface

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
0.00	0.00	1.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.19	189.73	100.00	0.16	-0.16	-0.03	0.19	0.17	189.73
200.00	0.39	191.23	200.00	0.64	-0.66	-0.12	0.20	0.67	190.49
300.00	0.36	199.44	300.00	1.27	-1.29	-0.29	0.06	1.32	192.80
400.00	0.92	215.13	399.99	2.38	-2.24	-0.86	0.58	2.40	200.97
500.00	0.57	213.58	499.98	3.67	-3.31	-1.60	0.35	3.68	205.72
600.00	0.37	218.16	599.98	4.49	-3.98	-2.07	0.20	4.49	207.48
700.00	0.20	225.52	699.98	4.97	-4.36	-2.40	0.17	4.97	208.79
800.00	0.19	242.31	799.98	5.28	-4.56	-2.67	0.06	5.28	210.33
900.00	0.07	261.75	899.98	5.45	-4.64	-2.87	0.13	5.46	211.75
1000.00	0.08	265.04	999.98	5.53	-4.66	-3.00	0.01	5.54	212.81
1100.00	0.15	227.95	1099.98	5.69	-4.75	-3.17	0.10	5.71	213.71
1200.00	0.08	237.12	1199.98	5.88	-4.88	-3.33	0.07	5.90	214.29
1300.00	0.24	247.39	1299.97	6.10	-5.00	-3.58	0.16	6.15	215.61
1400.00	0.35	208.20	1399.97	6.57	-5.35	-3.92	0.22	6.63	216.22
1500.00	0.48	223.66	1499.97	7.28	-5.92	-4.35	0.17	7.35	216.31
1600.00	0.55	213.05	1599.97	8.17	-6.62	-4.90	0.12	8.24	216.50
1700.00	0.61	215.61	1699.96	9.17	-7.46	-5.47	0.07	9.25	216.27
1800.00	0.58	222.33	1799.96	10.19	-8.27	-6.12	0.08	10.29	216.53
1900.00	0.49	202.38	1899.95	11.11	-9.04	-6.63	0.21	11.21	216.26
2000.00	0.49	214.17	1999.95	11.96	-9.78	-7.03	0.10	12.05	215.70
2100.00	0.31	203.06	2099.95	12.66	-10.39	-7.38	0.20	12.74	215.38
2200.00	0.47	198.31	2199.94	13.33	-11.03	-7.61	0.16	13.40	214.62
2300.00	0.62	206.66	2299.94	14.27	-11.90	-7.98	0.17	14.33	213.86
2400.00	0.50	207.47	2399.93	15.25	-12.77	-8.43	0.12	15.30	213.42
2500.00	0.54	213.65	2499.93	16.15	-13.55	-8.89	0.07	16.20	213.27
2600.00	0.41	196.01	2599.93	16.97	-14.28	-9.25	0.19	17.02	212.92
2700.00	0.35	213.28	2699.92	17.63	-14.88	-9.51	0.13	17.67	212.59
2800.00	0.33	209.91	2799.92	18.22	-15.39	-9.83	0.03	18.26	212.56
2900.00	0.28	209.37	2899.92	18.75	-15.85	-10.09	0.05	18.79	212.48
3000.00	0.34	208.76	2999.92	19.29	-16.32	-10.35	0.06	19.33	212.38
3100.00	0.40	201.71	3099.92	19.94	-16.91	-10.62	0.08	19.97	212.14
3200.00	0.47	191.96	3199.91	20.67	-17.63	-10.84	0.10	20.70	211.57
3300.00	0.50	180.76	3299.91	21.45	-18.47	-10.93	0.10	21.46	210.61
3400.00	0.45	186.68	3399.91	22.20	-19.30	-10.98	0.07	22.20	209.64
3500.00	0.46	181.39	3499.90	22.92	-20.09	-11.04	0.04	22.92	208.78
3600.00	0.42	173.30	3599.90	23.58	-20.86	-11.00	0.07	23.58	207.82
3700.00	0.44	160.34	3699.90	24.13	-21.58	-10.83	0.10	24.15	206.65
3800.00	0.38	160.20	3799.90	24.60	-22.25	-10.59	0.06	24.65	205.45
3900.00	0.33	196.79	3899.89	25.10	-22.84	-10.56	0.23	25.16	204.81
4000.00	0.37	168.78	3999.89	25.63	-23.43	-10.58	0.17	25.71	204.30
4100.00	0.32	145.33	4099.89	26.00	-23.98	-10.36	0.15	26.12	203.36
4200.00	0.27	189.52	4199.89	26.35	-24.44	-10.24	0.23	26.50	202.73
4300.00	0.34	151.06	4299.89	26.73	-24.93	-10.13	0.21	26.92	202.12
4400.00	0.17	155.99	4399.89	26.98	-25.33	-9.93	0.17	27.21	201.41
4500.00	0.33	171.69	4499.89	27.30	-25.75	-9.83	0.17	27.56	200.89
4600.00	0.52	191.27	4599.88	27.96	-26.48	-9.88	0.24	28.26	200.45
4700.00	0.88	195.61	4699.88	29.14	-27.67	-10.17	0.36	29.48	200.19
4800.00	0.89	183.04	4799.86	30.59	-29.18	-10.42	0.19	30.98	199.65



Scientific Drilling International Survey Report

Company: CONOCOPHILLIPS	Date: 12/15/2008	Time: 19:08:46	Page: 2
Field: Deer Canyon	Co-ordinate(NE) Reference: Site: Terrell County, Texas; Grid North		
Site: Terrell County, Texas	Vertical (TVD) Reference: SITE 0.0		
Well: University 4 #9	Section (VS) Reference: Well (0.00N,0.00E,208.80Azi)		
Wellpath: VH - Job #32K1108890	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
4900.00	0.67	178.69	4899.86	31.80	-30.54	-10.45	0.23	32.28	198.88
5000.00	0.71	195.69	4999.85	32.90	-31.72	-10.60	0.21	33.45	198.48
5100.00	0.83	181.58	5099.84	34.15	-33.04	-10.79	0.22	34.76	198.08
5200.00	0.97	193.76	5199.83	35.61	-34.59	-11.01	0.24	36.30	197.66
5300.00	1.03	182.45	5299.81	37.24	-36.31	-11.25	0.21	38.01	197.21
5400.00	1.20	187.07	5399.79	39.01	-38.25	-11.42	0.19	39.91	196.62
5500.00	0.98	189.58	5499.77	40.79	-40.13	-11.69	0.23	41.80	196.24
5600.00	0.99	180.25	5599.76	42.36	-41.83	-11.83	0.16	43.48	195.79
5700.00	1.17	182.43	5699.74	44.03	-43.72	-11.88	0.18	45.30	195.20
5800.00	2.88	190.15	5799.68	47.33	-47.21	-12.37	1.73	48.80	194.68
5900.00	4.02	196.51	5899.49	53.14	-53.05	-13.81	1.20	54.81	194.59
6000.00	5.35	202.89	5999.16	61.20	-60.70	-16.62	1.43	62.93	195.31
6100.00	5.57	206.29	6098.70	70.68	-69.35	-20.58	0.39	72.34	196.53
6200.00	6.02	202.84	6198.19	80.75	-78.53	-24.76	0.57	82.34	197.50
6300.00	5.27	203.77	6297.71	90.54	-87.57	-28.65	0.76	92.13	198.12
6400.00	4.30	205.44	6397.36	98.86	-95.16	-32.11	0.98	100.43	198.65
6500.00	3.60	214.14	6497.12	105.72	-101.14	-35.48	0.92	107.18	199.33
6600.00	2.83	218.30	6596.96	111.28	-105.68	-38.78	0.80	112.57	200.15
6700.00	2.59	212.40	6696.85	115.97	-109.52	-41.52	0.37	117.13	200.76
6800.00	2.79	213.87	6796.74	120.65	-113.45	-44.08	0.21	121.71	201.23
6900.00	2.73	210.76	6896.62	125.46	-117.52	-46.66	0.16	126.44	201.65
7000.00	3.21	209.71	6996.49	130.64	-121.99	-49.26	0.48	131.57	201.99
7100.00	3.58	212.84	7096.31	136.55	-127.05	-52.34	0.41	137.41	202.39
7200.00	3.31	217.29	7196.13	142.52	-131.97	-55.79	0.38	143.28	202.91
7300.00	3.56	217.52	7295.95	148.45	-136.73	-59.43	0.25	149.08	203.49
7400.00	4.28	218.72	7395.72	155.19	-142.10	-63.65	0.72	155.71	204.13
7500.00	3.61	222.93	7495.48	161.92	-147.32	-68.13	0.73	162.31	204.82
7600.00	3.12	224.66	7595.31	167.59	-151.56	-72.19	0.50	167.87	205.47
7700.00	3.32	225.45	7695.15	172.98	-155.53	-76.16	0.20	173.17	206.09
7800.00	3.26	225.17	7794.99	178.48	-159.56	-80.24	0.06	178.60	206.70
7900.00	3.25	225.13	7894.83	183.93	-163.57	-84.27	0.01	184.00	207.26
8000.00	3.29	223.12	7994.66	189.43	-167.66	-88.24	0.12	189.46	207.76
8100.00	3.33	223.86	8094.50	195.02	-171.85	-92.21	0.06	195.03	208.22
8200.00	3.65	225.60	8194.31	200.87	-176.17	-96.50	0.34	200.87	208.71
8300.00	3.51	222.54	8294.12	206.89	-180.65	-100.84	0.24	206.89	209.17
8400.00	3.67	220.71	8393.92	213.00	-185.34	-105.00	0.20	213.01	209.53
8500.00	3.74	221.27	8493.71	219.31	-190.21	-109.24	0.08	219.35	209.87
8600.00	3.95	219.76	8593.49	225.88	-195.31	-113.59	0.23	225.94	210.18
8700.00	3.98	221.50	8693.25	232.64	-200.56	-118.10	0.12	232.75	210.49
8800.00	3.96	218.31	8793.01	239.44	-205.87	-122.54	0.22	239.58	210.76
8900.00	4.20	212.08	8892.75	246.50	-211.68	-126.62	0.50	246.66	210.89
9000.00	4.05	209.38	8992.49	253.68	-217.86	-130.30	0.25	253.85	210.88
9100.00	3.91	208.74	9092.25	260.62	-223.93	-133.67	0.15	260.79	210.83
9200.00	3.59	207.41	9192.04	267.16	-229.70	-136.75	0.33	267.32	210.77
9300.00	3.36	208.24	9291.85	273.22	-235.06	-139.58	0.24	273.37	210.70
9400.00	2.89	202.65	9391.71	278.66	-239.96	-141.94	0.56	278.80	210.60
9500.00	2.51	200.25	9491.59	283.33	-244.35	-143.67	0.40	283.45	210.45
9600.00	2.36	196.90	9591.50	287.51	-248.37	-145.02	0.21	287.61	210.28
9700.00	2.17	191.53	9691.43	291.34	-252.19	-146.00	0.28	291.41	210.07
9800.00	2.15	192.01	9791.36	294.94	-255.88	-146.77	0.03	294.99	209.84
9900.00	2.83	192.43	9891.26	299.10	-260.13	-147.69	0.68	299.13	209.59
10000.00	3.05	180.15	9991.13	303.81	-265.20	-148.23	0.67	303.81	209.20



Scientific Drilling International Survey Report

Company: CONOCOPHILLIPS
Field: Deer Canyon
Site: Terrell County, Texas
Well: University 4 #9
Wellpath: VH - Job #32K1108890

Date: 12/15/2008 Time: 19:08:46 Page: 3
Co-ordinate(NE) Reference: Site: Terrell County, Texas, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,208.80Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
10082.00	3.08	179.27	10073.01	307.64	-269.59	-148.21	0.07	307.64	208.80



Scientific Drilling International Survey Report

Company: CONOCOPHILLIPS Date: 12/15/2008 Time: 19:11:21 Page: 1
Field: Deer Canyon Co-ordinate(NE) Reference: Site: Terrell County, Texas, Grid North
Site: Terrell County, Texas Vertical (TVD) Reference: SITE 0.0
Well: University 4 #9 Section (VS) Reference: Well (0.00N,0.00E,207.79Azi)
Wellpath: DH - Job #32D1108887 Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: 11/07/08-11/17/08 Start Date: 11/07/2008
MWD 10110'-10646'
Company: Scientific Drilling International Engineer: Barbre/Corley
Tool: MWD;MWD Tied-to: From: Definitive Path

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
10082.00	3.08	179.27	10073.01	307.59	-269.59	-148.21	0.00	307.64	208.80
10110.00	2.65	183.39	10100.98	308.84	-270.98	-148.23	1.70	308.88	208.68
10205.00	2.65	189.26	10195.88	312.92	-275.34	-148.72	0.29	312.94	208.37
10285.00	2.33	189.35	10275.80	316.22	-278.77	-149.28	0.40	316.23	208.17
10362.00	1.64	180.88	10352.75	318.69	-281.42	-149.55	0.97	318.69	207.99
10474.00	1.02	182.90	10464.72	321.02	-284.02	-149.63	0.56	321.02	207.78
10487.00	1.11	178.10	10477.72	321.23	-284.26	-149.63	0.97	321.23	207.76
10569.00	0.43	227.82	10559.71	322.21	-285.26	-149.83	1.09	322.21	207.71
10646.00	0.51	317.27	10636.71	322.37	-285.20	-150.28	0.86	322.37	207.79