

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Form C-101
May 27, 2004

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit to appropriate District Office

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

¹ Operator Name and Address ConocoPhillips Company 3300 N. "A" St., Bldg. 6 Midland, TX 79705-5490		² OGRID Number 217817
³ Property Code 31257		⁴ API Number 30-025-30437
⁵ Property Name Vacuum Glorieta East Unit (Tract 1)		⁶ Well No. 6
⁹ Proposed Pool 1 Vacuum; Glorieta		¹⁰ Proposed Pool 2

7 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/Westline	County
O	28	17S	35E		1195	South	2518	East	Lea

8 Proposed Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/Westline	County
M	28	17S	35E		271	South	1172	West	Lea

Additional Well Information

¹¹ Work Type Code P	¹² Well Type Code O	¹³ Cable/Rotary R	¹⁴ Lease Type Code D	¹⁵ Ground Level Elevation 3938' GR
¹⁶ Multiple	¹⁷ Proposed Depth TVD 6029', MD7883'	¹⁸ Formation Glorieta	¹⁹ Contractor TBD	²⁰ Spud Date Upon Approval
Depth to Groundwater 75'		Distance from nearest fresh water well >1000'		Distance from nearest surface water >1000'
Pit: Liner: Synthetic ☒ 12 mil thick Clay ☐		Pit Volume: 20910 bbls		Drilling Method: Fresh Water ☐ Brine ☒ Diesel/Oil-based ☐ Gas/Air ☐
Closed-Loop System ☐				

21 Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
17-1/2"	13-3/8"	48#	469'	500sx CI "C"	
12-1/4"	8-5/8"	24# & 32#	4764'	1950sx CI "C"	
7-7/8"	5-1/2"	14#	6300'	350sx CI "H"	

²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.
Per the following Procedure, ConocoPhillips plans to drill a sidetrack of 1900' length within existing cased hole. KOP @ 5902', penetration (formation entry) point location - 1153' FSL & 2735' FWL, schematic attached.

- Set Cast Iron Bridge Plug in Vertical Wellbore
- Set Whipstock above Cast Iron Bridge Plug
- Mill a window in the 5-1/2" casing (window mill off the whipstock)
- Directionally drill 4-3/4" horizontal lateral hole using 10 ppg brine or alternatively a 9 ppg brine or Calcium Carbonate Drill-In Fluid
- Leave the horizontal lateral as an open hole - no casing to be run in it and no cementing in the horizontal lateral.
- Recover the Whipstock
- Drill out the Cast Iron Bridge Plug in the vertical wellbore and clean out the vertical wellbore as needed
- Complete the well with the pump (either beam pump or Electrical Submersible Pump) in the vertical wellbore. Commingle the production from the perforations in the vertical wellbore with the production from the horizontal lateral or abandon the perforations in the vertical wellbore and produce the horizontal lateral by itself as an option.

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOCD guidelines ☐, a general permit ☐, or an (attached) alternative OCD-approved plan ☒.

Printed name: Celeste G. Dale
Title: Regulatory Specialist
E-mail Address: celeste.g.dale@conocophillips.com
Date: 04/13/2007
Phone: (432)688-6884

OIL CONSERVATION DIVISION

Approved by: *Chris Williams*
APPROX DISTRICT SUPERVISOR/GENERAL MANAGER

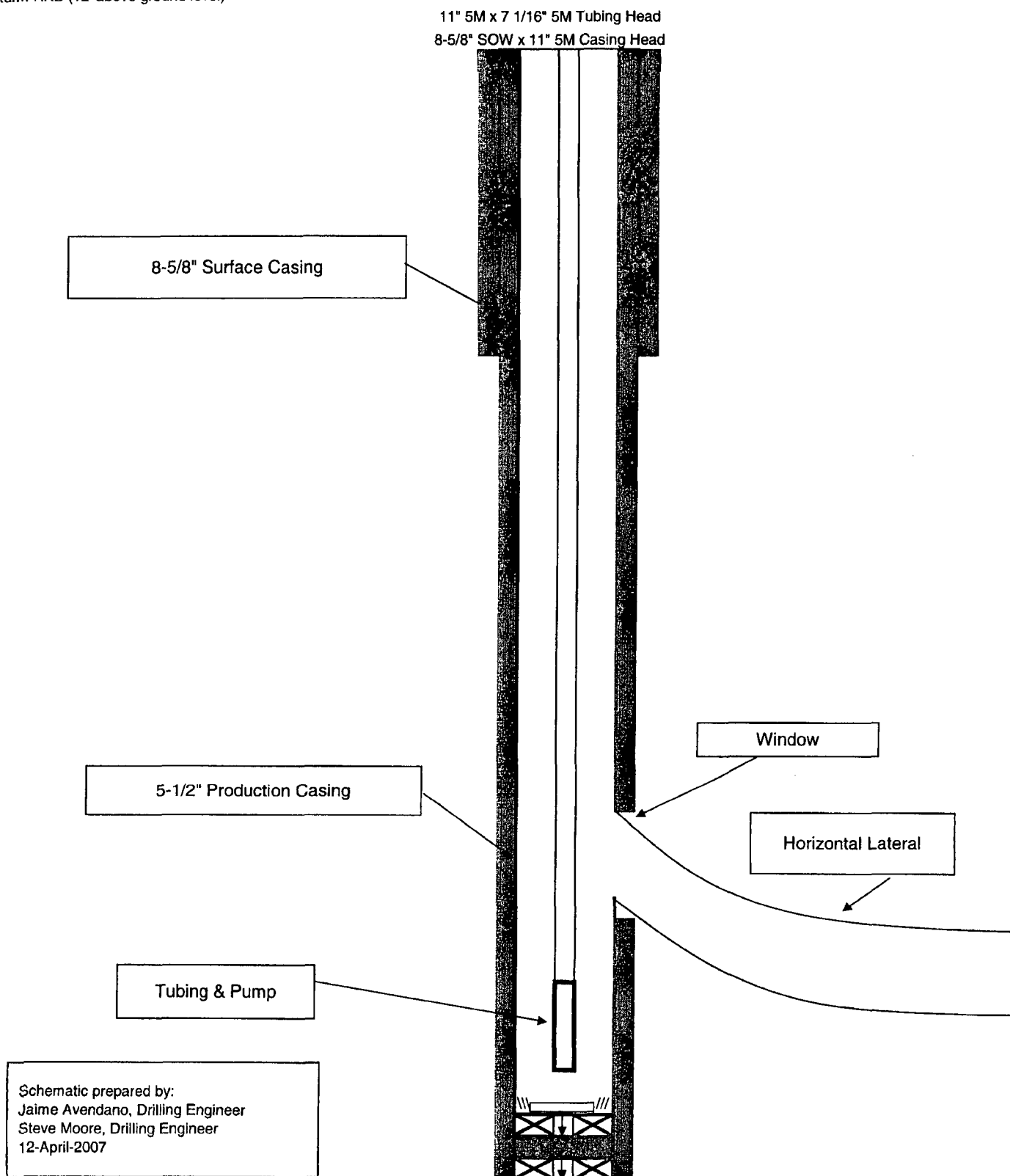
Approval Date: APR 18 2007
Expiration Date:

Condition of: BEFORE THE OIL CONSERVATION DIVISION

Santa Fe, New Mexico
Case No. 14562 Exhibit No. 3
Submitted by:
CONOCOPHILLIPS COMPANY
Hearing Date: October 28, 2010

Proposed Drilling Wellbore Schematic
Vacuum Glorieta East Unit Horizontal Sidetrack Wells

Datum: RKB (12' above ground level)



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State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised October 12, 2005
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-30437		Pool Code 62160		Pool Name Vacuum; Glorieta	
Property Code 31257		Property Name Vacuum Glorieta East Unit (Tract 1)			Well Number 6
OGRID No. 217817		Operator Name ConocoPhillips Company			Elevation 3938' GR

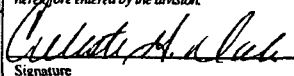
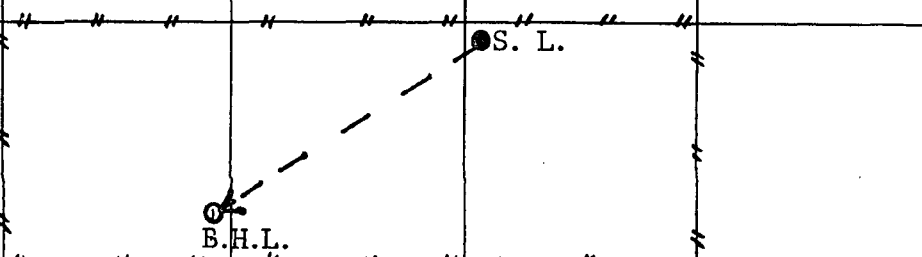
10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	28	17S	35E		1195	South	2518	East	Lea

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	28	17S	35E		271	South	1172	West	
Dedicated Acres 120		Joint or Infill		Consolidation Code		Order No.			

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

16					17 OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i>  Signature 04/12/2007 Date Celeste G. Dale Printed Name
					18 SURVEYOR CERTIFICATION <i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i>
	 Date of Survey Signature and Seal of Professional Surveyor: Certificate Number				

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State of New Mexico
Energy Minerals and Natural ResourcesOil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505Form C-101
May 27, 2004

Submit to appropriate District Office

☒ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

Operator Name and Address ConocoPhillips Company 3300 N. "A" St., Bldg. 6 Midland, TX 79705-5490		217817 OGRID Number
		30 025-30437 API Number
Property Code 31257	Property Name Vacuum Glorieta East Unit (Tract 1)	Well No. 6
Proposed Pool 1 Vacuum; Glorieta		Proposed Pool 2

7 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/Westline	County
O	28	17S	35E		1195	South	2518	East	Lea

8 Proposed Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/Westline	County
M	28	17S	35E		245	South	1127	West	Lea

Additional Well Information

Work Type Code P	Well Type Code O	Cable/Rotary R	Lease Type Code S	Ground Level Elevation 3938' GR, RKB 3961'
Multiple	Proposed Depth TVD 6041', MD7908'	Formation Glorieta	Contractor Nabors	Spud Date 09/05/2007
Depth to Groundwater 75'		Distance from nearest fresh water well >1000'		Distance from nearest surface water >1000'
Liner: Synthetic ☒ 12 mil thick Clay ☐		Drilling Method: Fresh Water ☐ Brine ☒ Diesel/Oil-based ☐ Gas/Air ☐		
Closed-Loop System ☐		Pic Volume: 20910 bbls		

21 Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
17-1/2"	13-3/8"	48#	469'	500sx CI "C"	
12-1/4"	8-5/8"	24# & 32#	4764'	1950sx CI "C"	
7-7/8"	5-1/2"	14#	6300'	350sx CI "H"	

21 Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

Amendment filed to change the KOP depth, TVD, TMD and borehole length

Per the following Procedure, ConocoPhillips plans to drill a sidetrack of 1726' length within existing cased hole. KOP @ 5808' Approval

penetration (formation entry) point location - 1091' FSL & 2637' FWL, schematic attached.

-Set Cast Iron Bridge Plug in Vertical Wellbore

-Set Whipstock above Cast Iron Bridge Plug

-Mill a window in the 5-1/2" casing (window mill off the whipstock)

-Directionally drill 4-3/4" horizontal lateral hole using 10 ppg brine or alternatively a 9 ppg brine or Calcium Carbonate Drill-In Fluid

-Leave the horizontal lateral as an open hole - no casing to be run in it and no cementing in the horizontal lateral.

-Recover the Whipstock

-Drill out the Cast Iron Bridge Plug in the vertical wellbore and clean out the vertical wellbore as needed

-Complete the well with the pump (either beam pump or Electrical Submersible Pump) in the vertical wellbore. Commingle the production from the perforations in the vertical wellbore with the production from the horizontal lateral or abandon the perforations in the vertical wellbore and produce the horizontal lateral by itself as an option.

21 I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOC guidelines ☐ a general permit ☐ or an (attached) alternative OCD-approved plan ☒.

OIL CONSERVATION DIVISION

Approved by:

Chris Williams

Title: DISTRICT SUPERVISOR/GENERAL MANAGER

Printed name: Celeste G. Dale

Title: Regulatory Specialist

E-mail Address: celeste.g.dale@conocophillips.com

Date: 09/05/2007

Phone: (432)688-6884

Approval Date: SEP 07 2007

Expiration Date:

Conditions of Approval Attached ☐

Permit Expires 1 Year From Approval
Date Unless Drilling Underway
A Horizontal

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(505) 393-6161 Fax:(505) 393-0720

District II

1301 W. Grand Ave., Artesia, NM 88210
Phone:(505) 748-1283 Fax:(505) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources

Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

Form C-103
Permit62901

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVIOR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)		WELL API NUMBER 30-025-30437
1. Type of Well: O		5. Indicate Type of Lease P
2. Name of Operator CONOCOPHILLIPS COMPANY		6. State Oil & Gas Lease No.
3. Address of Operator 3401 E. 30TH STREET, FARMINGTON, NM 87402		7. Lease Name or Unit Agreement Name VACUUM GLORIETA EAST UNIT
4. Well Location Unit Letter <u>O</u> : <u>1195</u> feet from the <u>S</u> line and <u>2518</u> feet from the <u>E</u> line Section <u>28</u> Township <u>17S</u> Range <u>35E</u> NMPM Lea County		8. Well Number 006
11. Elevation (Show whether DR, KB, BT, GR, etc.) 3954 GR		9. GRID Number 217817
Pit or Below-grade Tank Application ☐ or Closure ☐ Pit Type _____ Depth to Groundwater _____ Distance from nearest fresh water well _____ Distance from nearest surface water _____ Pit Liner Thickness: _____ mil Below-Grade Tank: Volume _____ bbls; Construction Material _____		10. Pool name or Wildcat

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐ TEMPORARILY ABANDON ☐ CHANGE OF PLANS ☐ PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐ Other: _____		SUBSEQUENT REPORT OF: REMEDIAL WORK ☐ ALTER CASING ☐ COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDON ☐ CASING/CEMENT JOB ☐ Other: Spud ☒
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13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work.) SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

9/6/2007 Spudded well.

09/05/07 - Notified S. Dickey (NMOCD) of intent to re-enter wellbore
 09/06/07 - Began drilling curve @ 5811-5856'
 09/07/07 - Slide drilled curve 5856-5991'
 09/08/07 - Slide drilled curve 5991-6147'
 09/09/07 - Lost/regained circulation. Drilled curve 6152-6174'
 09/10/07 - Slide drilled curve 6174-6196'. Drld. lateral section 6196-6296', TOOH
 09/11/07 - Drld. lateral section 6269-6410'
 09/12/07 - Drld. lateral section 6410-6429'
 09/13/07 - Wait on tools
 09/14-20/07 - Drlg. 6466-7785', TOOH, LDDP
 09/21/07 - Rig released @ 1800 hrs.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐, a general permit ☐ or an (attached) alternative OCD-approved plan ☐.

SIGNATURE Electronically Signed TITLE Regulatory Technician DATE 10/17/2007

Type or print name Philana Thompson E-mail address thomppp@conocophillips.com Telephone No. 505-326-9530

For State Use Only:

APPROVED BY: Paul Kautz TITLE Geologist DATE 10/18/2007

Results of Directional Survey

API number:	30-025-30437		
OGRID:		Operator:	CONOCOPHILLIPS COMPANY
		Property:	VACUUM GLORIETA EAST UNIT # 6

surface	ULSTR:	O	28	T	17S	R	35E
			1195	FSL	2518	FEL	

BH Loc	ULSTR:	M	28	T	17S	R	35E
			288	FSL	4091	FEL	

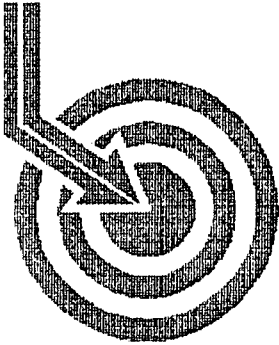
	MD	N/S	E/W	VD
	5798	-2.81	40.78	5797.58
TOP PERFS/OH	5808	-3.51	39.71	5807.46
	5862	-7.30	33.92	5860.83
	7715	-869.97	-1513.81	6052.49
BOT PERFS/OH	7785	-907.30	-1573.00	6055.41
	7733	-879.57	-1529.03	6053.24

NEXT TO LAST	7715	-869.97	-1513.81	6052.49
LAST READING	7733	-879.57	-1529.03	6053.24
TD	7785	-907.30	-1573.00	6055.41

Surface Location	1195	FS	2518	FE
Projected BHL	288	FS	4091	FE
Location of				
Top Perfs/OH	1191	FS	2478	FE
Bottom Perfs/OH	288	FS	4091	FE

SUMMARY of Subsurface Locations

Surface Location	O-28-17S-35E	1195	FS	2518	FE	Vert Depth
Top Perfs/OH	O-28-17S-35E	1191	FS	2478	FE	5807.46
Bottom Perfs/OH	M-28-17S-35E	288	FS	4091	FE	6055.41
Projected TD	M-28-17S-35E	288	FS	4091	FE	6055.41



Scientific Drilling

SUR @ O-28s-17s-35e, 1195/S & 2518/E
BHL @ M-28-18s-35e, 288/S & 4091/E
API # 30-025-30437

CONOCOPHILLIPS

Field: Vacuum
Site: Lea County, NM
Well: VGEU #01-06
Wellpath: DH - Job #32D0807748
Survey: 09/05/07-09/21/07

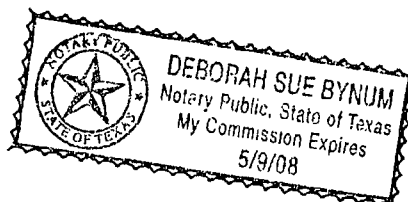
This survey is correct to the best of my knowledge
and is supported by actual field data.

R. Wharton.....Company Representative

Notorized this date 25th of October, 2007.

Deborah Sue Bynum

Notary Signature
County of Midland
State of Texas





Scientific
Drilling

Scientific Drilling International Survey Report

Company: CONOCOPHILLIPS Date: 10/07/2007 Time: 13:41:15 Page: 1
Field: Vacuum Co-ordinate(NE) Reference: Site: Lea County, NM, Grid North
Site: Lea County, NM Vertical (TVD) Reference: SITE 0.0
Well: VGEU #01-06 Section (VS) Reference: Well (0.00N,0.00E,240.00Azi)
Wellpath: VH - Job #32K0907773 Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: 09/06/07 Start Date: 09/06/2007
KSRG 0'-5798'
Company: Scientific Drilling Internatio Engineer: Rehders/Stanley 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.39	183.52	100.00	0.19	-0.34	-0.02	0.39	0.34	183.52
200.00	0.40	187.99	200.00	0.59	-1.03	-0.09	0.03	1.03	185.03
300.00	0.42	178.97	299.99	0.98	-1.74	-0.13	0.07	1.74	184.35
400.00	0.64	207.93	399.99	1.63	-2.60	-0.39	0.34	2.63	188.48
500.00	0.81	208.02	499.98	2.71	-3.71	-0.98	0.17	3.84	194.79
600.00	0.81	197.29	599.97	3.83	-5.01	-1.52	0.15	5.24	196.90
700.00	0.69	203.41	699.96	4.83	-6.24	-1.97	0.14	6.55	197.54
800.00	0.74	209.75	799.96	5.87	-7.35	-2.53	0.09	7.78	199.00
900.00	0.50	202.31	899.95	6.77	-8.32	-3.02	0.25	8.85	199.94
1000.00	0.42	194.83	999.95	7.38	-9.08	-3.28	0.10	9.65	199.85
1100.00	0.26	209.64	1099.94	7.83	-9.63	-3.48	0.18	10.24	199.89
1200.00	0.43	211.21	1199.94	8.36	-10.15	-3.79	0.17	10.83	200.48
1300.00	0.39	197.99	1299.94	8.94	-10.79	-4.09	0.10	11.54	200.76
1400.00	0.39	177.74	1399.94	9.35	-11.45	-4.18	0.14	12.19	200.05
1500.00	0.36	174.49	1499.94	9.64	-12.11	-4.14	0.04	12.79	198.87
1600.00	0.30	162.16	1599.93	9.82	-12.67	-4.03	0.09	13.29	197.64
1700.00	0.20	151.89	1699.93	9.88	-13.07	-3.87	0.11	13.63	196.47
1800.00	0.17	153.07	1799.93	9.90	-13.36	-3.72	0.03	13.87	195.54
1900.00	0.07	164.78	1899.93	9.92	-13.55	-3.63	0.10	14.03	195.01
2000.00	0.13	221.67	1999.93	10.04	-13.69	-3.69	0.11	14.18	195.09
2100.00	0.15	61.11	2099.93	10.02	-13.71	-3.65	0.28	14.19	194.91
2200.00	0.22	48.28	2199.93	9.70	-13.52	-3.39	0.08	13.94	194.09
2300.00	0.31	31.75	2299.93	9.28	-13.17	-3.11	0.12	13.53	193.29
2400.00	0.19	49.03	2399.93	8.87	-12.83	-2.84	0.14	13.14	192.49
2500.00	0.38	50.92	2499.93	8.38	-12.51	-2.46	0.19	12.75	191.12
2600.00	0.59	40.28	2599.93	7.57	-11.91	-1.87	0.23	12.05	188.92
2700.00	0.50	40.38	2699.92	6.68	-11.18	-1.25	0.09	11.25	186.39
2800.00	0.71	55.86	2799.91	5.65	-10.50	-0.46	0.26	10.51	182.49
2900.00	0.86	47.57	2899.91	4.30	-9.65	0.61	0.19	9.67	176.39
3000.00	0.70	54.82	2999.90	2.96	-8.79	1.66	0.19	8.95	169.29
3100.00	0.71	64.55	3099.89	1.73	-8.17	2.72	0.12	8.61	161.58
3200.00	0.83	65.10	3199.88	0.39	-7.60	3.94	0.12	8.56	152.61
3300.00	0.66	57.34	3299.87	-0.91	-6.98	5.08	0.20	8.64	143.98
3400.00	0.64	81.20	3399.86	-2.00	-6.59	6.12	0.27	8.99	137.13
3500.00	0.67	79.67	3499.86	-3.07	-6.40	7.24	0.03	9.66	131.46
3600.00	0.61	86.89	3599.85	-4.10	-6.26	8.35	0.10	10.44	126.88
3700.00	0.51	102.61	3699.85	-4.90	-6.33	9.32	0.18	11.26	124.21
3800.00	0.68	109.24	3799.84	-5.62	-6.63	10.31	0.18	12.26	122.73
3900.00	0.59	103.54	3899.84	-6.38	-6.94	11.37	0.11	13.32	121.40
4000.00	0.76	108.50	3999.83	-7.19	-7.27	12.50	0.18	14.46	120.19
4100.00	0.72	116.44	4099.82	-7.98	-7.76	13.69	0.11	15.74	119.55
4200.00	0.60	89.75	4199.81	-8.78	-8.04	14.78	0.33	16.82	118.55
4300.00	0.67	76.48	4299.81	-9.79	-7.90	15.87	0.16	17.73	116.47
4400.00	0.81	81.55	4399.80	-11.01	-7.66	17.14	0.15	18.77	114.09
4500.00	1.03	68.65	4499.79	-12.56	-7.23	18.67	0.30	20.03	111.16
4600.00	1.27	63.34	4599.77	-14.55	-6.41	20.50	0.26	21.48	107.35
4700.00	1.36	69.62	4699.74	-16.83	-5.49	22.60	0.17	23.26	103.66
4800.00	1.10	70.62	4799.72	-18.94	-4.76	24.62	0.26	25.08	100.95



Scientific Drilling International Survey Report

Company: CONOCOPHILLIPS
Field: Vacuum
Site: Lea County, NM
Well: VGEU #01-06
Wellpath: VH - Job #32K0907773

Date: 10/07/2007 Time: 13:41:15 Page: 2
Co-ordinate(NE) Reference: Site: Lea County, NM, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,240.00Azi)
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	1.03	66.85	4899.70	-20.78	-4.09	26.35	0.10	26.67	98.82
5000.00	1.02	74.64	4999.68	-22.53	-3.50	28.04	0.14	28.26	97.12
5100.00	0.97	82.33	5099.67	-24.18	-3.15	29.74	0.14	29.90	96.05
5200.00	0.88	96.76	5199.66	-25.57	-3.13	31.34	0.25	31.49	95.71
5300.00	1.02	99.57	5299.64	-26.88	-3.37	32.98	0.15	33.15	95.83
5400.00	0.92	87.50	5399.63	-28.27	-3.48	34.66	0.23	34.83	95.74
5500.00	0.94	90.66	5499.62	-29.69	-3.46	36.28	0.06	36.44	95.44
5600.00	0.85	87.38	5599.60	-31.06	-3.43	37.84	0.10	38.00	95.18
5700.00	0.90	77.32	5699.59	-32.46	-3.23	39.35	0.16	39.48	94.69
5798.00	0.85	70.12	5797.58	-33.91	-2.81	40.78	0.12	40.88	93.94



Scientific
Drilling

Scientific Drilling International Survey Report

Company: CONOCOPHILLIPS	Date: 10/18/2007	Time: 20:57:42	Page: 1
Field: Vacuum	Co-ordinate(NE) Reference: Site: Lea County, NM, Grid North		
Site: Lea County, NM	Vertical (TVD) Reference: SITE 0.0		
Well: VGEU #01-06	Section (VS) Reference: Well (0.00N,0.00E,240.00Azi)		
Wellpath: DH - Job #32D0807748	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Survey: 09/05/07-09/21/07	Start Date: 09/05/2007
MWD 5862'-7733'	
Company: Scientific Drilling Internatio	Engineer: Johns/Lopez/Graham/Smith
Tool: Keeper/Keeper Gyro	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
5798.00	0.85	70.12	5797.58	-33.91	-2.81	40.78	0.00	40.88	93.94
5862.00	15.60	237.51	5860.83	-25.73	-7.30	33.92	25.67	34.70	102.15
5894.00	23.54	234.53	5890.96	-15.05	-13.33	25.08	25.00	28.40	118.00
5925.00	31.77	233.31	5918.39	-0.76	-21.81	13.47	26.61	25.64	148.30
5957.00	38.74	235.16	5944.51	17.61	-32.58	-1.52	22.03	32.62	182.67
5989.00	46.52	236.43	5968.04	39.21	-44.74	-19.44	24.46	48.78	203.49
6021.00	54.20	236.44	5988.44	63.78	-58.35	-39.96	24.00	70.72	214.40
6052.00	62.23	237.50	6004.75	90.07	-72.70	-62.04	26.07	95.57	220.48
6084.00	69.08	238.21	6017.94	119.19	-88.19	-86.71	21.50	123.68	224.51
6114.00	74.88	238.47	6027.21	147.70	-103.16	-110.98	19.35	151.52	227.09
6145.00	79.48	237.26	6034.09	177.89	-119.24	-136.57	15.32	181.30	228.88
6177.00	84.74	238.72	6038.48	209.56	-136.03	-163.44	17.05	212.64	230.23
6209.00	87.81	240.20	6040.56	241.49	-152.25	-190.94	10.65	244.21	231.43
6240.00	88.01	241.69	6041.69	272.46	-167.30	-218.02	4.85	274.81	232.50
6272.00	88.15	242.28	6042.76	304.42	-182.32	-246.25	1.89	306.40	233.48
6304.00	89.26	242.91	6043.48	336.38	-197.04	-274.66	3.99	338.03	234.34
6336.00	90.34	243.15	6043.60	368.34	-211.56	-303.17	3.46	369.69	235.09
6367.00	90.84	243.88	6043.28	399.27	-225.38	-330.92	2.85	400.38	235.74
6383.00	91.04	243.56	6043.01	415.24	-232.46	-345.26	2.36	416.23	236.05
6415.00	92.55	243.14	6042.01	447.17	-246.81	-373.85	4.90	447.97	236.57
6447.00	90.77	243.13	6041.09	479.10	-261.26	-402.38	5.56	479.76	237.00
6479.00	89.13	242.87	6041.11	511.06	-275.79	-430.89	5.19	511.60	237.38
6510.00	89.09	242.65	6041.60	542.02	-289.98	-458.45	0.72	542.46	237.69
6542.00	88.96	242.34	6042.14	573.99	-304.75	-486.83	1.05	574.35	237.95
6574.00	89.33	242.11	6042.62	605.96	-319.66	-515.14	1.36	606.26	238.18
6605.00	90.20	242.46	6042.74	636.93	-334.08	-542.58	3.03	637.19	238.38
6637.00	91.04	242.41	6042.40	668.90	-348.89	-570.95	2.63	669.11	238.57
6669.00	89.43	242.77	6042.27	700.87	-363.62	-599.36	5.16	701.03	238.76
6701.00	89.53	242.39	6042.56	732.83	-378.36	-627.76	1.23	732.96	238.92
6732.00	90.27	242.76	6042.61	763.80	-392.63	-655.28	2.67	763.90	239.07
6764.00	90.57	242.19	6042.38	795.77	-407.42	-683.65	2.01	795.85	239.21
6796.00	88.39	242.24	6042.67	827.74	-422.34	-711.96	6.81	827.80	239.32
6827.00	88.89	242.21	6043.40	858.71	-436.78	-739.38	1.62	858.75	239.43
6859.00	89.77	242.03	6043.78	890.69	-451.74	-767.66	2.81	890.72	239.52
6891.00	90.71	241.87	6043.64	922.67	-466.79	-795.90	2.98	922.69	239.61
6923.00	89.43	242.19	6043.60	954.65	-481.80	-824.17	4.12	954.66	239.69
6954.00	90.00	242.12	6043.76	985.62	-496.28	-851.58	1.85	985.63	239.77
6986.00	91.65	242.52	6043.30	1017.59	-511.14	-879.91	5.31	1017.60	239.85
7018.00	89.56	242.46	6042.96	1049.56	-525.92	-908.29	6.53	1049.56	239.93
7049.00	90.50	242.87	6042.94	1080.53	-540.15	-935.83	3.31	1080.53	240.01
7081.00	91.62	242.90	6042.35	1112.48	-554.74	-964.30	3.50	1112.48	240.09
7113.00	89.90	242.47	6041.93	1144.44	-569.42	-992.73	5.54	1144.45	240.16
7144.00	90.13	242.49	6041.92	1175.41	-583.74	-1020.22	0.74	1175.42	240.22
7176.00	88.22	241.92	6042.38	1207.38	-598.66	-1048.53	6.23	1207.40	240.28
7208.00	88.86	242.03	6043.19	1239.35	-613.69	-1076.77	2.03	1239.37	240.32
7239.00	89.33	241.79	6043.68	1270.33	-628.29	-1104.11	1.70	1270.36	240.36
7271.00	87.58	241.30	6044.55	1302.31	-643.53	-1132.23	5.68	1302.34	240.39
7303.00	87.81	241.14	6045.83	1334.27	-658.92	-1160.26	0.88	1334.31	240.41
7334.00	88.32	240.53	6046.88	1365.25	-674.02	-1187.31	2.56	1365.29	240.42



Scientific Drilling International Survey Report

Company: CONOCOPHILLIPS
Field: Vacuum
Site: Lea County, NM
Well: VGEU #01-06
Wellpath: DH - Job #32D0807748

Date: 10/18/2007 Time: 20:57:42 Page: 2
Co-ordinate(NE) Reference: Site: Lea County, NM, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,240.00Azi)
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
7366.00	88.96	239.67	6047.64	1397.24	-689.97	-1215.05	3.35	1397.28	240.41
7398.00	89.30	239.78	6048.13	1429.24	-706.10	-1242.68	1.12	1429.27	240.39
7430.00	90.47	239.77	6048.19	1461.24	-722.21	-1270.33	3.66	1461.27	240.38
7461.00	91.14	239.85	6047.76	1492.24	-737.79	-1297.12	2.18	1492.27	240.37
7493.00	91.75	239.77	6046.95	1524.22	-753.88	-1324.77	1.92	1524.25	240.36
7525.00	89.93	239.18	6046.48	1556.22	-770.13	-1352.33	5.98	1556.25	240.34
7556.00	90.03	239.15	6046.49	1587.22	-786.02	-1378.95	0.34	1587.24	240.32
7588.00	88.69	238.81	6046.85	1619.21	-802.51	-1406.37	4.32	1619.23	240.29
7620.00	87.35	238.07	6047.95	1651.18	-819.25	-1433.62	4.78	1651.19	240.25
7652.00	87.01	237.54	6049.53	1683.11	-836.28	-1460.67	1.97	1683.12	240.21
7683.00	87.28	237.50	6051.07	1714.05	-852.90	-1486.79	0.88	1714.05	240.16
7715.00	87.65	237.95	6052.49	1745.99	-869.97	-1513.81	1.82	1745.99	240.11
7733.00	87.55	237.57	6053.24	1763.96	-879.57	-1529.03	2.18	1763.96	240.09



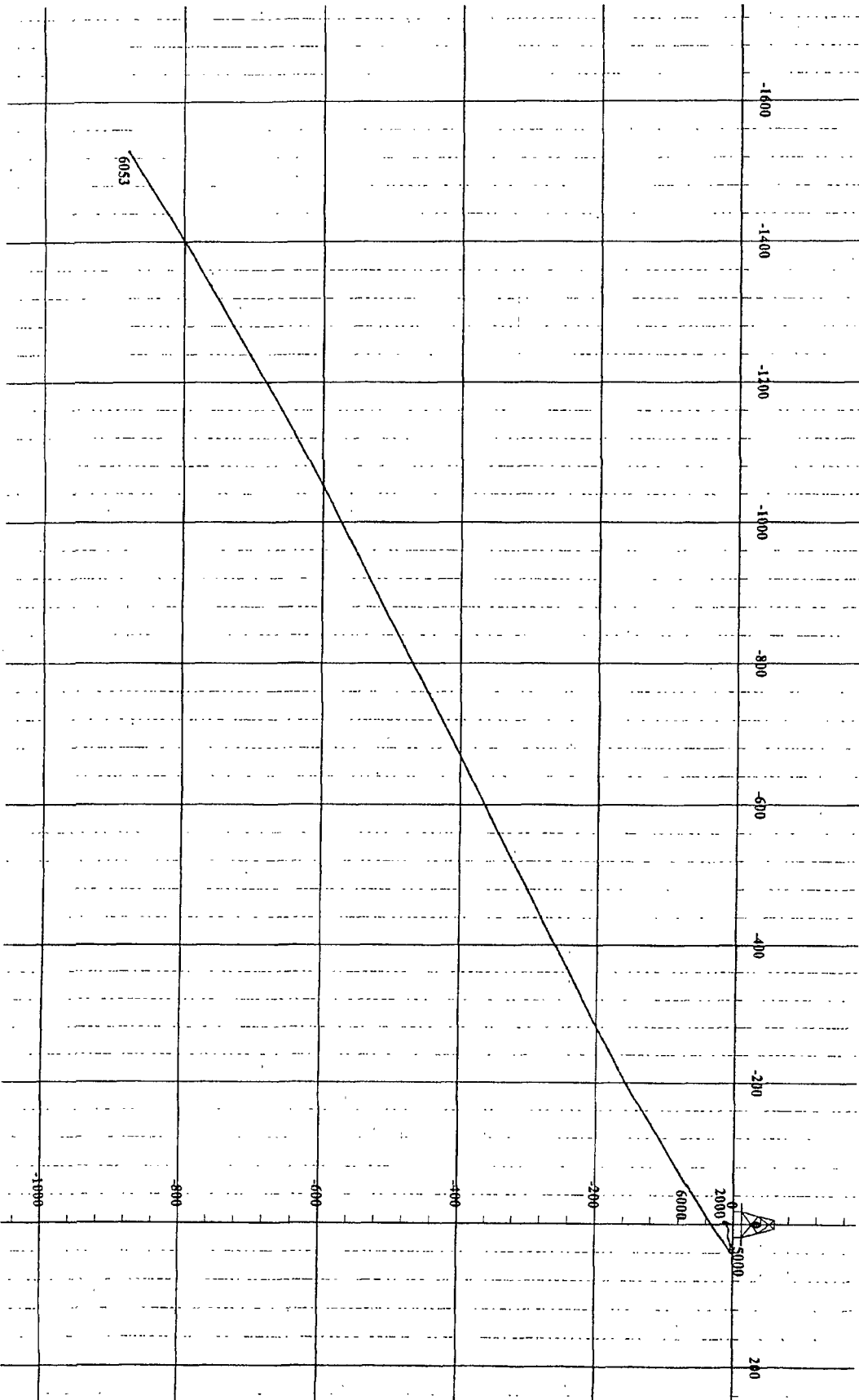
Scientific Drilling

Field: Vacuum
Site: Lea County, NM
Well: VGEU #01-06
Wellpath: DH - Job #32D0807748
Survey: 09/05/07-09/21/07

West(-)/East(+) [2000ft/in]



Assemble to Grid level
Elev. North 0.000
Magnetic North 0.000
Magnetic Field
Declination 0.000
Date 10/10/07
Model 471700



Submit To Appropriate District Office
State Lease - 6 copies
Fee Lease - 5 copies
District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

RECEIVED
JAN 18 2008

Amended
WELL API NO.
30-025-30437
5. Indicate Type of Lease
STATE ☒ FEE ☐
State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name
VACUUM GLORIETA EAST UNIT
TRACT 1
8. Well No
6
9. Pool name or Wildcat
VACUUM; GLORIETA

Form C-105
Revised June 10, 2003

WELL COMPLETION REPORT AND LOG

1a Type of Well:
OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER ☐
b. Type of Completion:
NEW ☐ WORK ☐ DEEPEN ☐ PLUG ☐ DIFF
WELL OVER BACK RESVR. ☐ OTHER ☐
2. Name of Operator
ConocoPhillips Company
3. Address of Operator
3300 N. "A" Street, Bldg. 6 #243 Midland, TX 79705-5406
4. Well Location
Unit Letter O 1195' Feet From The SOUTH Line and 2518 Feet From The EAST Line
Section 28 Township 17S Range 35E NMPM LEA County
10 Date Spudded 11/19/1988 11. Date T.D. Reached 12/07/1988 12. Date Compl (Ready to Prod.) 12/28/1988 13 Elevations (DF& RKB, RT, GR, etc.) KB 961' GR 3938' 14. Elev. Casinghead
15 Total Depth 6300' MD 7785' 16. Plug Back T.D. 6280' 17. If Multiple Compl. How Many Zones? 18. Intervals Drilled By X Rotary Tools Cable Tools
19. Producing Interval(s), of this completion - Top, Bottom, Name 6013' - 6192' Glorieta 20. Was Directional Survey Made yes
21. Type Electric and Other Logs Run DLL, MLL, GR ZDL, GRM, CAL AC, GR CAL 22. Was Well Cored

23. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8"	48	469'	17-1/2"	500 SXS CLC	
8-5/8"	24# K55	4763'	12-1/4"	1950 SXS CLC	
5-1/2"	14# K55	6300'	7-7/8"	350 SX CLH	

24. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN
5-1/2'	5800'	5808'		

25. TUBING RECORD

SIZE	DEPTH SET	PACKER SET
2-7/8"	6173 (SN)	

26. Perforation record (interval, size, and number)
6014 - 6152 (276 SHOTS)
Kickoff Pt. @ 5802'

27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.
DEPTH INTERVAL
6014' - 6152'
AMOUNT AND KIND MATERIAL USED
10000 GAL 15% HCL

28. PRODUCTION

Date First Production

Production Method (Flowing, gas lift, pumping - Size and type pump)
Pumping 2-1/2" x 1-1/2" x 24" pmp

Well Status (Prod or Shut-in)
Producing

Date of Test	Hours Tested	Choke Size	Prod'n For Test Period	Oil - Bbl	Gas - MCF	Water - Bbl.	Gas - Oil Ratio
10/25/2007	24			110	1	990	.90/1
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl	Oil Gravity - API - (Corr.)	
88	70		110	1	990	41	

29 Disposition of Gas (Sold, used for fuel, vented, etc.)
Sold

Test Witnessed By

30. List Attachments
C102, C104, Directional Survey, C116

31. I hereby certify that the information shown on both sides of this form as true and complete to the best of my knowledge and belief

Signature
Gay Thomas

Printed Name
Gay Thomas

Title
Regulatory Technician

Date
10/26/2007

E-mail-Address
Gay.Thomas@conocophillips.com

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 25 through 29 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico			Northwestern New Mexico		
T. Ahny	1568	T. Canyon	T. Ojo Alamo	T. Penn "B"	
T. Salt	1673	T. Strawn	T. Kirtland-Fruitland	T. Penn. "C"	
B. Salt	2723	T. Atoka	T. Pictured Cliffs	T. Penn. "D"	
T. Yates	2820	T. Miss	T. Cliff House	T. Leadville	
T. 7 Rivers	3050	T. Devonian	T. Menefee	T. Madison	
T. Queen	3720	T. Silurian	T. Point Lookout	T. Elbert	
T. Grayburg	4043	T. Montoya	T. Mancos	T. McCracken	
T. San Andres	4375	T. Simpson	T. Gallup	T. Ignacio Otzte	
T. Glorieta	2893	T. McKee	Base Greenhorn	T. Granite	
T. Paddock	6013	T. Ellenburger	T. Dakota	T.	
T. Blinebry		T. Gr. Wash	T. Morrison	T.	
T. Tubb		T. Delaware Sand	T. Todilto	T.	
T. Drinkard		T. Bone Springs	T. Entrada	T.	
T. Abo		T.	T. Wingate	T.	
T. Wolfcamp		T.	T. Chinle	T.	
T. Penn		T.	T. Permian	T.	
T. Cisco (Bough C)		T.	T. Penn "A"	T.	

OIL OR GAS SANDS OR ZONES

No. 1, from 6013 to 6192 No. 3, from to
No. 2, from to No. 4, from to

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from to feet
No. 2, from to feet
No. 3, from to feet

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness In Feet	Lithology	From	To	Thickness In Feet	Lithology
1568	1673	105	Rustler-Ahny, Salt				
1673	2723	1050	Salado-Salt, Ahny				
2723	2820	97	Transil-Ahny, Dolo				
2820	3050	230	Yates-Dolo, Snd, Ahny				
3050	3720	670	7 Rivers-Dolo, Snd, Ahny				
3720	4043	323	Queen-Snd, Dolo				
4043	4375	332	Grayburg-Dolo, Ahny				
4375	5893	1518	San Andres-Dolo, Ahnu				
5893	6013	120	Glorieta-Dolo, Snd				
6013	6297	284+	Paddock-Dolo				

District I

1625 N. French Dr., Hobbs, NM 88240

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District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-102

Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

☒ AMENDED REPORT**WELL LOCATION AND ACREAGE DEDICATION PLAT**

'API Number 30-025-30437	'Pool Code 62160	'Pool Name VACUUM GLORIETA
'Property Code 31257	'Property Name VACUUM GLORIETA EAST UNIT (TRACT 1)	'Well Number 6
'OGRID No. 217817	'Operator Name ConocoPhillips Company	'Elevation 3938 GR

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	28	17S	35E		1195	SOUTH	2518	EAST	

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	28	17S	35E		288	SOUTH	4091	EAST	

" Dedicated Acres 120	" Joint or Infill	" Consolidation Code	" Order No.
--------------------------	-------------------	----------------------	-------------

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

¹⁶ 	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or undivided mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <u>Gay Thomas</u> 04/01/2008 Signature Date <u>Gay Thomas</u> Printed Name
	¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Date of Survey Signature and Seal of Professional Surveyor
	Certificate Number