

Submit 1 Copy To Appropriate District Office
District I - (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II - (575) 748-1283
811 S. First St., Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV - (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised July 18, 2013

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO.
30-025-42071

5. Indicate Type of Lease

STATE ☒ FEE ☐

6. State Oil & Gas Lease No.

7. Lease Name or Unit Agreement Name
Vacuum Abo Unit

8. Well Number 706

9. OGRID Number 217817

10. Pool name or Wildcat
Vacuum; Abo Reef

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-10) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well ☒ Gas Well ☐ Other

2. Name of Operator ConocoPhillips Company

3. Address of Operator 600 N. Dairy Ashford Rd., P10-3096
Houston, Texas 77079-1175

4. Well Location

Unit Letter O : 1016 feet from the south line and 2333 feet from the east line

Section 27 Township 17S Range 35E NMPM Lea County

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
3931'

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 PLANS ☒
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐
CLOSED-LOOP SYSTEM ☐
OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐
OTHER: ☐

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 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

ConocoPhillips Company (COPC) respectfully requests approval of these proposed changes to our drilling plan for this well. These issues have been discussed with Mr. Brown by Steven Herrin, ConocoPhillips Drilling Engineer.

While drilling our 8-3/4" hole section at 4,756' we got differentially stuck when making a connection. We attempted to free BHA by spotting acid but were unsuccessful. We free pointed the drill string and backed off at 4356' leaving 400' of fish in the hole. Fish consists of BHA (mwd, motor, and bit), 9 drill collars, and 1 HWDP. We screwed back into fish on 11-12-14 and unsuccessfully jarred on the fish in an attempt to retrieve it. We free pointed and backed off the jarring assembly and 1 joint of HWDP. The top of fish is now 4385' and consist of BHA (mwd, motor, and bit), 9 drill collars.

Attachments include: Wellbore Diagram with fish and cement plug; Sidetrack procedure; Directional Sidetrack Plan

Thank you for your time spent reviewing this request.

Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE

Susan B. Maunder

TITLE Senior Regulatory Specialist

DATE 11/18/14

Type or print name Susan B. Maunder

E-mail address: Susan.B.Maunder@cop.com

PHONE: 281-206-5281

For State Use Only

APPROVED BY:

Malay Brown

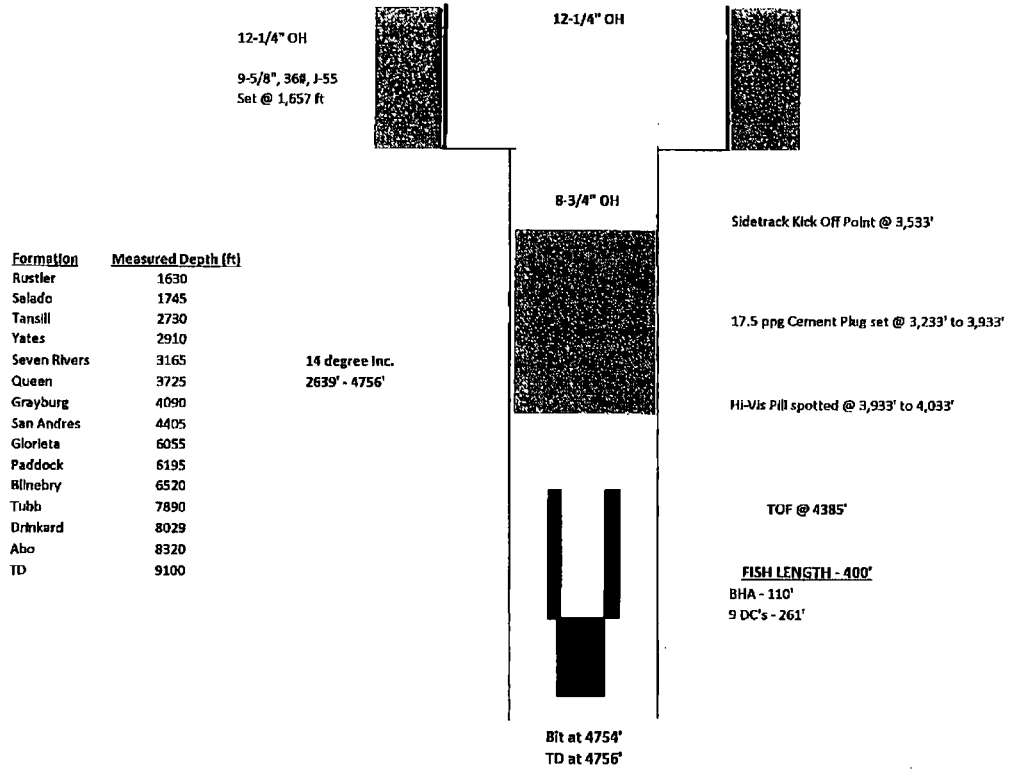
TITLE Dist Supervisor

DATE 11/19/2014

Conditions of Approval (if any):

NOV 19 2014

VAU 7-06
API # 30-025-42071



Vacuum Abo Unit 7-06 Kick-Off Plug and Sidetrack Contingency Procedure

Setting Balanced Plug: TOP OF FISH @ 4,385' - 3233'

*Continuous
cmt plug*

- 1) RIH with 700' of 2-7/8", 2.441 I.D. P-110 6.5# EUE x 4.5" G-105 16.60# XH DP to 4,033' MD.
- 2) Circulate BU and confirm no gas flow and well is stable.
- 3) Spot a 8 bbl - 10 ppg hi-vis pill (ideally YP>100) from 3,933' - 4,033' MD. *← OMIT*
- 4) Immediately PU to 3,933 and circulate BU.
- 5) RU Schlumberger cement equipment.
- 6) At 3,933 MD, pump 20 bbls FW spacer, 56 bbls (358 sks) of 17.5 ppg cement, followed by 3.4 bbls FW spacer. Refer to attached kick-off plug cement proposal for reference.
- 7) Displace with 36.6 bbls (5bbl under displaced) FW. Confirm displacement with cementers using Schlumberger balanced plug calculator to ensure plug is placed in a balance condition.
- 8) Immediately PU to a depth of 2,733' (Calc. TOC @ 3,233' MD) pulling joints at 30' - 35' per minute.
- 9) Displace hole with 9.0 ppg brine and circulate 2x BU at a rate of 5 BPM (to clean the DP).
- 10) PU inside surface casing shoe and circulate BU. Perform flow check.
- 11) TOO H with DP and LD plugging string.

Sidetracking the Well:

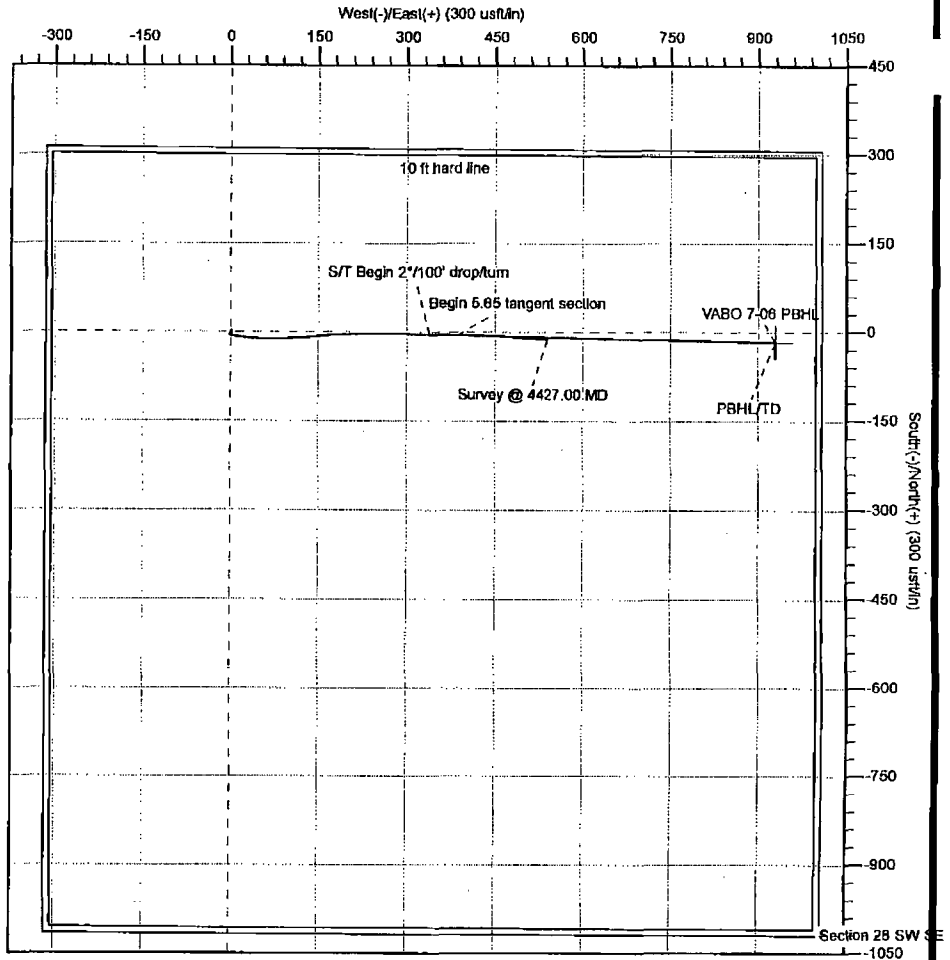
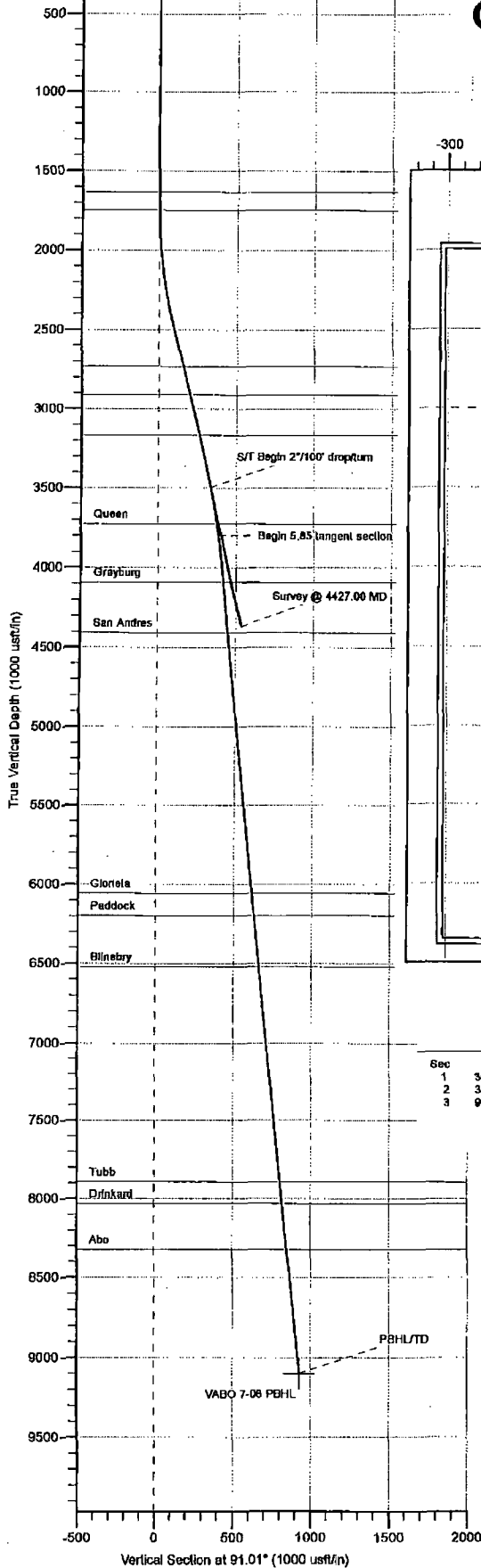
- 1) PU & RIH with sidetrack BHA detailed below to surface csg shoe. Circulate BU and WOC.

Component	Joints	Length	Cum Length
Rental DP - 4.5"	-	-	-
HWDP - 4.5"	6	180	454
DC - 6.25"	6	180	274
NMDC w/ MWD	2	60	94
UBHO Sub	1	3	34
Motor 2.38" bend 7/8 3.5 Slick	1	30	31
8.75" Insert Tri-Cone Bit (3 x 16's)	1	1	1

- 2) After 24 hour WOC time has passed, TIH to 3,233' and circulate BU.
- 3) RIH and tag top of plug at ~3,233' MD.
- 4) Dress top of cement until good cement is found, then begin sidetrack.
NOTE: Planned KOP is 3,533', but kicking off earlier is acceptable. Please refer to attached directional plan for reference.
- 5) Time drill with sidetrack BHA at planned azimuth until surveys indicate we have kicked-off and departed from original wellbore. Do not speed up ROP until we are sure we are off the plug.
- 6) Once departure from the original wellbore has been confirmed, TOO H and PU directional BHA and continue to drill to planned intermediate TD.



Well: Vacuum ABO Unit Well No. 7-06
 Site: Vacuum ABO Unit
 Project: Lea County, New Mexico
 Design: rev4
 Rig: PD 822



Sec	MD	Inc	Azi	TVD	+N/S	+E/W	Dleg	TFace	VFace	Annotation
1	3533.00	12.00	92.20	3495.57	-3.33	339.03	0.00	0.00	338.04	S/T Begin 2"/100' drop/tum
2	3840.35	5.85	91.22	3799.35	-4.89	385.68	2.00	-179.07	385.70	Begin 5.85 tangent section
3	9168.79	5.85	91.22	9100.00	-18.46	929.09	0.00	0.00	929.24	PBHL/TD

Surface Location: RKB=3930.8+13 @ 3943.80usft (PD 822)
 US State Plane 1927 (Exact solution)
 New Mexico East 3001

Northing	Easting	Latitude	Longitude
856340.88	773296.81	32° 48' 4.380711 N	103° 26' 38.074884 W

Total Correction (M => G) To convert a Magnetic Direction to a Grid Direction, Add 6.68°



Azimuths to Grid North
 True North: -0.48°
 Magnetic North: 6.68°

Magnetic Field
 Strength: 49631.0snT
 Dip Angle: 60.85°
 Date: 11/11/2014
 Model: IGRF2010



Database:	Dbase Nov0914	Local Co-ordinate Reference:	Well Vacuum ABO Unit Well No. 7-06
Company:	ConocoPhillips	TVD Reference:	RKB=3930.8+13 @ 3943.80usft (PD 822)
Project:	Lea County, New Mexico	MD Reference:	RKB=3930.8+13 @ 3943.80usft (PD 822)
Site:	Vacuum ABO Unit	North Reference:	Grid
Well:	Vacuum ABO Unit Well No. 7-06	Survey Calculation Method:	Minimum Curvature
Wellbore:	Sidetrack 01		
Design:	rev4		

Project	Lea County, New Mexico		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Vacuum ABO Unit				
Site Position:		Northing:	657,758.68 usft	Latitude:	32° 48' 17.958684 N
From:	Map	Easting:	778,438.28 usft	Longitude:	103° 25' 37.701730 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.49 °

Well	Vacuum ABO Unit Well No. 7-06, Surf Loc: 1016 FSL 2333 FEL Sect 27					
Well Position	+N-S	-1,417.78 usft	Northing:	656,340.88 usft	Latitude:	32° 48' 4.360711 N
	+E-W	-5,141.47 usft	Easting:	773,298.81 usft	Longitude:	103° 28' 38.074684 W
Position Uncertainty	0.00 usft	Wellhead Elevation:		Ground Level:	3,930.80 usft	

Wellbore	Sidetrack 01				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	IGRF2010	11/11/2014	(°)	(°)	(nT)
			7.15	80.65	48,631

Design	rev4			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	3,533.00
Vertical Section:	Depth From (TVD)	+N-S	+E-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.00	0.00	0.00	91.01

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N-S (usft)	+E-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
3,533.00	12.00	92.20	3,495.87	-3.33	338.03	0.00	0.00	0.00	0.00	
3,840.35	5.85	91.22	3,799.35	-4.89	385.68	2.00	-2.00	-0.32	-178.07	
9,168.79	5.85	91.22	9,100.00	-16.46	928.08	0.00	0.00	0.00	0.00	VABO 7-06 PBHL

Database: Dbase Nov0914
 Company: ConocoPhillips
 Project: Lea County, New Mexico
 Site: Vacuum ABO Unit
 Well: Vacuum ABO Unit Well No. 7-06
 Wellbore: Sidetrack 01
 Design: rev4

Local Co-ordinate Reference:
 TVD Reference:
 MD Reference:
 North Reference:
 Survey Calculation Method:

Well Vacuum ABO Unit Well No. 7-06
 RKB=3930.8+13 @ 3943.80usft (PD 822)
 RKB=3930.8+13 @ 3943.80usft (PD 822)
 Grid
 Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Bulld Rate (°/100usft)	Turn Rate (°/100usft)
3,533.00	12.00	92.20	3,495.87	-3.33	338.03	338.04	0.00	0.00	0.00
S/T Begin 2°/100' drop turn									
3,600.00	10.66	92.08	3,561.57	-3.82	351.19	351.20	2.00	-2.00	-0.18
3,700.00	8.66	91.84	3,660.14	-4.40	367.96	367.98	2.00	-2.00	-0.24
3,765.50	7.35	91.61	3,725.00	-4.67	377.07	377.10	2.00	-2.00	-0.35
Queen									
3,800.00	6.66	91.45	3,758.25	-4.78	381.28	381.30	2.00	-2.00	-0.46
3,840.35	5.85	91.22	3,798.35	-4.69	385.68	385.70	2.00	-2.00	-0.57
Begin 5.85 tangent section									
3,900.00	5.85	91.22	3,858.69	-5.02	391.76	391.79	0.00	0.00	0.00
4,000.00	5.85	91.22	3,958.17	-5.23	401.96	401.99	0.00	0.00	0.00
4,100.00	5.85	91.22	4,057.65	-5.45	412.16	412.19	0.00	0.00	0.00
4,132.52	5.85	91.22	4,090.00	-5.52	415.47	415.51	0.00	0.00	0.00
Grayburg									
4,200.00	5.85	91.22	4,157.13	-5.67	422.36	422.39	0.00	0.00	0.00
4,300.00	5.85	91.22	4,256.61	-5.89	432.55	432.59	0.00	0.00	0.00
4,400.00	5.85	91.22	4,356.09	-6.10	442.75	442.79	0.00	0.00	0.00
4,448.17	5.85	91.22	4,405.00	-6.21	447.77	447.81	0.00	0.00	0.00
San Andres									
4,500.00	5.85	91.22	4,455.56	-6.32	452.95	452.99	0.00	0.00	0.00
4,600.00	5.85	91.22	4,555.04	-6.54	463.15	463.19	0.00	0.00	0.00
4,700.00	5.85	91.22	4,654.52	-6.75	473.35	473.39	0.00	0.00	0.00
4,800.00	5.85	91.22	4,754.00	-6.97	483.55	483.59	0.00	0.00	0.00
4,900.00	5.85	91.22	4,853.48	-7.19	493.74	493.79	0.00	0.00	0.00
5,000.00	5.85	91.22	4,952.96	-7.41	503.94	503.99	0.00	0.00	0.00
5,100.00	5.85	91.22	5,052.43	-7.62	514.14	514.19	0.00	0.00	0.00
5,200.00	5.85	91.22	5,151.91	-7.84	524.34	524.40	0.00	0.00	0.00
5,300.00	5.85	91.22	5,251.39	-8.06	534.54	534.60	0.00	0.00	0.00
5,400.00	5.85	91.22	5,350.87	-8.28	544.74	544.80	0.00	0.00	0.00
5,500.00	5.85	91.22	5,450.35	-8.49	554.93	555.00	0.00	0.00	0.00
5,600.00	5.85	91.22	5,549.83	-8.71	565.13	565.20	0.00	0.00	0.00
5,700.00	5.85	91.22	5,649.30	-8.93	575.33	575.40	0.00	0.00	0.00
5,800.00	5.85	91.22	5,748.78	-9.14	585.53	585.60	0.00	0.00	0.00
5,900.00	5.85	91.22	5,848.26	-9.36	595.73	595.80	0.00	0.00	0.00
6,000.00	5.85	91.22	5,947.74	-9.58	605.93	606.00	0.00	0.00	0.00
6,100.00	5.85	91.22	6,047.22	-9.80	616.12	616.20	0.00	0.00	0.00
6,107.82	5.85	91.22	6,055.00	-9.81	618.92	617.00	0.00	0.00	0.00
Glorieta									
6,200.00	5.85	91.22	6,148.70	-10.01	628.32	628.40	0.00	0.00	0.00
6,248.56	5.85	91.22	6,185.00	-10.12	631.27	631.35	0.00	0.00	0.00
Paddock									
6,300.00	5.85	91.22	6,246.17	-10.23	638.52	638.60	0.00	0.00	0.00
6,400.00	5.85	91.22	6,345.65	-10.45	646.72	646.80	0.00	0.00	0.00
6,500.00	5.85	91.22	6,445.13	-10.66	656.92	657.00	0.00	0.00	0.00
6,575.26	5.85	91.22	6,520.00	-10.83	664.59	664.68	0.00	0.00	0.00
Blinberry									
6,600.00	5.85	91.22	6,544.61	-10.88	667.12	667.20	0.00	0.00	0.00
6,700.00	5.85	91.22	6,644.09	-11.10	677.31	677.40	0.00	0.00	0.00
6,800.00	5.85	91.22	6,743.57	-11.32	687.51	687.61	0.00	0.00	0.00
6,900.00	5.85	91.22	6,843.04	-11.53	697.71	697.81	0.00	0.00	0.00
7,000.00	5.85	91.22	6,942.52	-11.75	707.91	708.01	0.00	0.00	0.00
7,100.00	5.85	91.22	7,042.00	-11.97	718.11	718.21	0.00	0.00	0.00
7,200.00	5.85	91.22	7,141.48	-12.18	728.31	728.41	0.00	0.00	0.00

Database:	Dbase Nov0914	Local Co-ordinate Reference:	Well Vacuum ABO Unit Well No. 7-06
Company:	ConocoPhillips	TVD Reference:	RKB=3930.8+13 @ 3943.80usft (PD 822)
Project:	Lea County, New Mexico	MD Reference:	RKB=3930.8+13 @ 3943.80usft (PD 822)
Site:	Vacuum ABO Unit	North Reference:	Grid
Well:	Vacuum ABO Unit Well No. 7-06	Survey Calculation Method:	Minimum Curvature
Wellbore:	Sidetrack 01		
Design:	rev4		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N-S (usft)	+E-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Bulld Rate (°/100usft)	Turn Rate (°/100usft)
7,300.00	5.85	91.22	7,240.96	-12.40	738.50	738.61	0.00	0.00	0.00
7,400.00	5.85	91.22	7,340.44	-12.62	748.70	748.81	0.00	0.00	0.00
7,500.00	5.85	91.22	7,439.92	-12.84	758.90	759.01	0.00	0.00	0.00
7,600.00	5.85	91.22	7,539.39	-13.05	769.10	769.21	0.00	0.00	0.00
7,700.00	5.85	91.22	7,638.87	-13.27	779.30	779.41	0.00	0.00	0.00
7,800.00	5.85	91.22	7,738.35	-13.49	789.50	789.61	0.00	0.00	0.00
7,900.00	5.85	91.22	7,837.83	-13.70	799.69	799.81	0.00	0.00	0.00
7,952.45	5.85	91.22	7,890.00	-13.82	805.04	805.16	0.00	0.00	0.00
Tubb									
8,000.00	5.85	91.22	7,937.31	-13.92	809.89	810.01	0.00	0.00	0.00
8,092.17	5.85	91.22	8,029.00	-14.12	819.29	819.41	0.00	0.00	0.00
Drinkard									
8,100.00	5.85	91.22	8,036.79	-14.14	820.09	820.21	0.00	0.00	0.00
8,200.00	5.85	91.22	8,136.28	-14.36	830.29	830.41	0.00	0.00	0.00
8,300.00	5.85	91.22	8,235.74	-14.57	840.49	840.61	0.00	0.00	0.00
8,384.70	5.85	91.22	8,320.00	-14.76	849.13	849.25	0.00	0.00	0.00
Abo									
8,400.00	5.85	91.22	8,335.22	-14.79	850.89	850.81	0.00	0.00	0.00
8,500.00	5.85	91.22	8,434.70	-15.01	860.88	861.02	0.00	0.00	0.00
8,600.00	5.85	91.22	8,534.18	-15.22	871.08	871.22	0.00	0.00	0.00
8,700.00	5.85	91.22	8,633.66	-15.44	881.28	881.42	0.00	0.00	0.00
8,800.00	5.85	91.22	8,733.13	-15.66	891.48	891.62	0.00	0.00	0.00
8,900.00	5.85	91.22	8,832.61	-15.88	901.68	901.82	0.00	0.00	0.00
9,000.00	5.85	91.22	8,932.09	-16.09	911.88	912.02	0.00	0.00	0.00
9,100.00	5.85	91.22	9,031.57	-16.31	922.07	922.22	0.00	0.00	0.00
9,168.79	5.85	91.22	9,100.00	-16.46	929.09	929.24	0.00	0.00	0.00
PBHL/TD									

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N-S (usft)	+E-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
VABO 7-06 PBHL	0.00	0.00	9,100.00	-16.46	929.09	856,324.42	774,225.90	32° 48' 4.120409 N	103° 26' 27.192301 W
- plan hits target center									
- Point									

Database: Dbase Nov0914
Company: ConocoPhillips
Project: Lea County, New Mexico
Site: Vacuum ABO Unit
Well: Vacuum ABO Unit Well No. 7-06
Wellbore: Sidetrack 01
Design: rev4

Local Co-ordinate Reference: Well Vacuum ABO Unit Well No. 7-06
TVD Reference: RKB=3930.8+13 @ 3943.80usft (PD 822)
MD Reference: RKB=3930.8+13 @ 3943.80usft (PD 822)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,765.50	3,725.00	Queen		0.00		
4,132.52	4,090.00	Grayburg		0.00		
4,449.17	4,405.00	San Andres		0.00		
6,107.82	6,055.00	Glorieta		0.00		
6,248.56	6,195.00	Paddock		0.00		
6,575.26	6,520.00	Blinebry		0.00		
7,952.45	7,890.00	Tubb		0.00		
8,092.17	8,029.00	Drinkard		0.00		
8,384.70	8,320.00	Abo		0.00		