

30-015-40007

OCCIDENTAL PERMIAN LTD.

Laguna Salado Bone Spring, S.

Eddy County, NM

Goodnight 26 Federal #1

VH - Job #32K0412438

Survey: Gyro

SDI Standard Survey Report

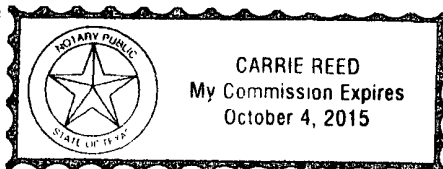
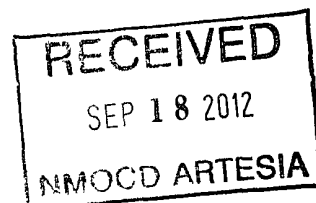
This survey is correct to the best of my knowledge and is supported by actual field data.

[Signature]

Notarized this date 14th of May, 2012.

[Signature]

Notary Signature
County of Midland
State of Texas



Scientific Drilling International, Inc.

SDI Standard Survey Report



Company:	OCCIDENTAL PERMIAN LTD	Local Co-ordinate Reference:	Well Goodnight 26 Federal #1
Project:	Laguna Salado Bone Spring, S	TVD Reference:	WELL @ 0 00usft (Original Well Elev)
Site:	Eddy County, NM	MD Reference:	WELL @ 0 00usft (Original Well Elev)
Well:	Goodnight 26 Federal #1	North Reference:	Grid
Wellbore:	VH - Job #32K0412438	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K0412438	Database:	EDM-Regulatory

Project	Laguna Salado Bone Spring, S		
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	Eddy County, NM		
Site Position:		Northing:	465,143 90 usft
From:	Lat/Long	Easting:	603,975 34 usft
Position Uncertainty:	0 00 usft	Slot Radius:	0"
		Grid Convergence:	0 18 °

Well	Goodnight 26 Federal #1, Vertical		
Well Position	+N/-S	0 00 usft	Northing: 463,251 06 usft
	+E/-W	0 00 usft	Easting: 619,714 55 usft
Position Uncertainty	0 00 usft	Wellhead Elevation:	usft
		Ground Level:	0 00 usft

Wellbore	VH - Job #32K0412438		
Magnetics	Model Name	Sample Date	Declination
	IGRF2010	04/14/12	7 66
			60 15
			48,547

Design	VH - Job #32K0412438		
Audit Notes:			
Version:	1 0	Phase:	ACTUAL
		Tie On Depth:	0 00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0 00	0 00	0 00
			253 24

Survey Program	Date	05/19/12		
From	To	Survey (Wellbore)	Tool Name	Description
(usft)	(usft)			
90 92	330 11	Gyro (VH - Job #32K0412438)	Keeper	Keeper Surface Readout

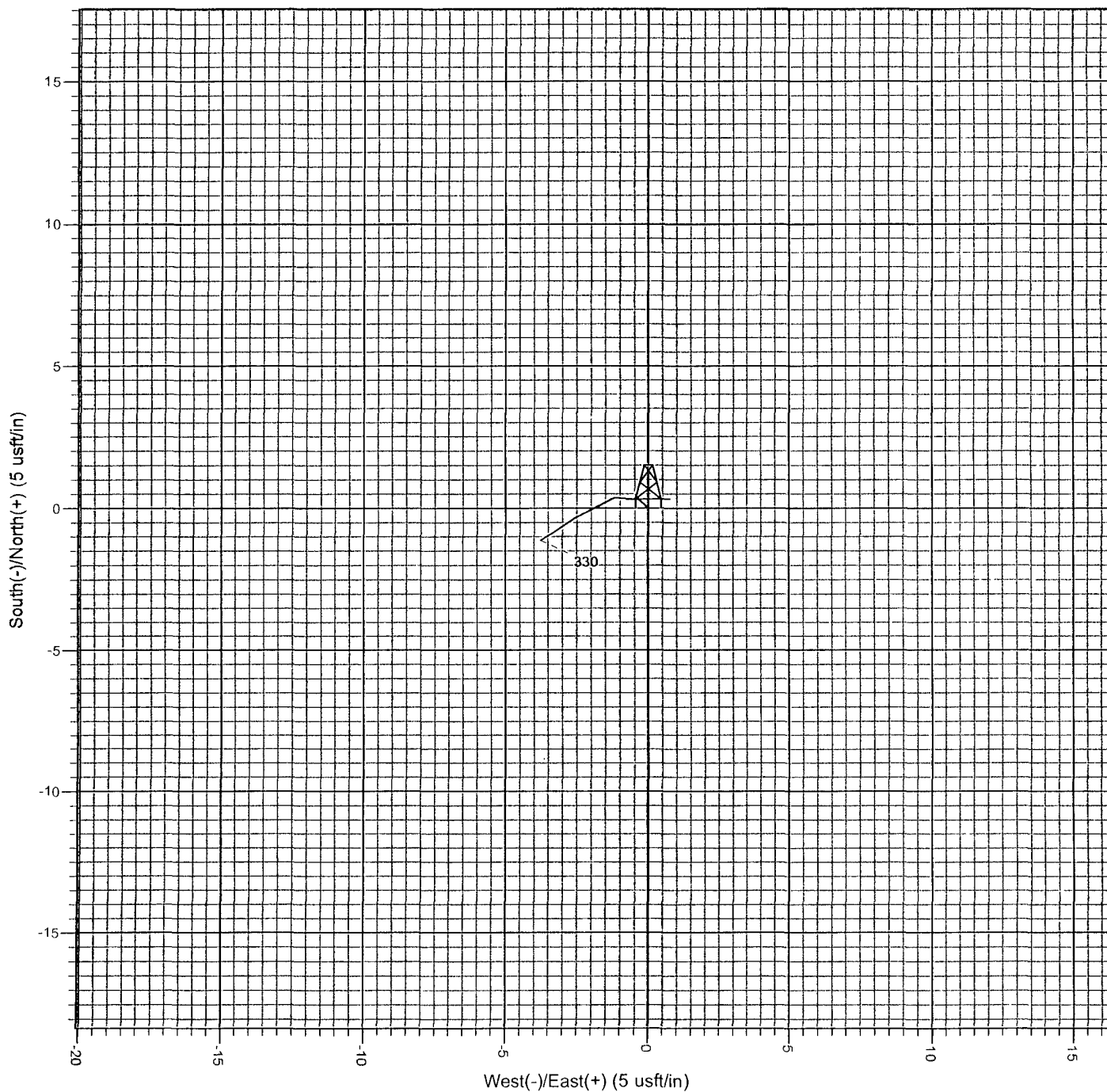
Survey								
Measured Depth	Inclination	Azimuth	True Vertical	North/South	East/West	Closure Azimuth	Closure Distance	
(usft)	(°)	(°)	Depth	(usft)	(usft)	(°)	(usft)	
0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
90 92	0 55	312 53	90 92	0 29	-0 32	312 53	0 44	
178 69	0 75	247 34	178 68	0 36	-1 16	287 14	1 22	
266 61	1 23	240 29	266 59	-0 33	-2 51	262 50	2 53	
330 11	1 43	234 45	330 07	-1 13	-3 75	253 24	3 92	



Project: Laguna Salado Bone Spring, S.
 Eddy County, NM
 Well: Goodnight 26 Federal #1
 Wellbore: VH - Job #32K0412438
 Design: VH - Job #32K0412438

WELL DETAILS: Goodnight 26 Federal #1
 WELL @ 0.00usft (Original Well Elev)
 Ground Level 0 00

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0 00	0.00	463251 06	619714.55	32° 16' 22.800 N	103° 56' 45 600 W	



PROJECT DETAILS: Laguna Salado Bone Spring, S.		SITE DETAILS: Eddy County, NM	
Geodetic System: US State Plane 1927 (Exact solution)		Site Centre Latitude: 32° 16' 42.057 N	
Datum: NAD 1927 (NADCON CONUS)		Longitude: 103° 59' 48.854 W	
Ellipsoid: Clarke 1866		Positional Uncertainty: 0.00	
Zone: New Mexico East 3001		Convergence: 0.18	
System Datum: Mean Sea Level		Local North: Grid	



Weatherford

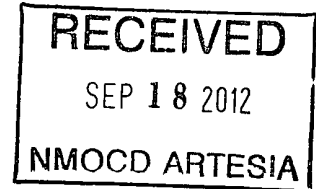
Evaluation, Drilling & Intervention
10000 West County Rd. 116
P.O. Box 61028
Midland, TX USA 79711
Tel. (432) 561-8892 Fax (432) 561-8895

Occidental Permian Ltd.
5 Greenway Plaza Suite 110
Houston Tx 77046

Date: June 4, 2012

Attention: Scott Hulsey

Re: Occidental Permian Ltd
Well: Goodnight 26 Fed Com #1H
Eddy County, New Mexico



Enclosed, please find the original survey performed on the referenced well by Precision Energy Services, Inc. (P-5 No. 676004), a Weatherford company. Other information required by your office is as follows:

Name & Title Of Surveyor	Well Number	Surveyed Depths	Dates Performed	Type of Survey
Joe Rivera MWD Supervisor	1H	419' MD 14186' MD	4/16/2012 5/27/2012	Measurement While Drilling

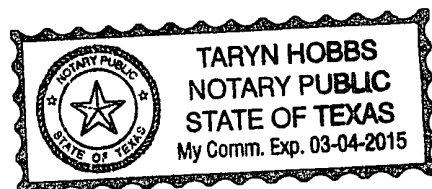
A notarized plan vs. actual is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Jesus Aguilar
MWD Coordinator

On this, the 4th day of JUNE, 2012, before me a notary public, the undersigned officer, personally appeared JESUS AGUILAR, known to me (or satisfactorily proven) to be the person whose name is subscribed to the within instrument, and acknowledged that he executed the same for the purposes therein contained.

In witness-whereof, I hereunto set my hand and official seal.

Notary Public





Weatherford International Ltd.

WFT Survey Report X & Y's



Weatherford

Company: Occidental Permian Ltd.		Date: 5/30/2012		Time: 09:44:15		Page: 1	
Field: Eddy Co, NM (Nad 27)		Co-ordinate(NE) Reference: Well: Fed #1H, Grid North					
Site: Goodnight 26 Fed #1H		Vertical (TVD) Reference: SITE 3096.5					
Well: Fed #1H		Section (VS) Reference: Well (0.00N, 0.00E, 303.70Az)					
Wellpath: Pilot		Survey Calculation Method: Minimum Curvature		Db: Sybase			

Survey: Wft Svy	Start Date: 4/17/2012
Company: Weatherford International Ltd	Engineer: Keith Noack
Tool: MWD;MWD - Standard	Tied-to: From Surface

Field: Eddy Co, NM (Nad 27)	
Map System: US State Plane Coordinate System 1927 Geo Datum: NAD27 (Clarke 1866) Sys Datum: Mean Sea Level	Map Zone: New Mexico, Eastern Zone Coordinate System: Well Centre Geomagnetic Model: IGRF2010

Site: Goodnight 26 Fed #1H		
Site Position: From: Map Position Uncertainty: 0 00 ft Ground Level: 3071 50 ft	Northing: 463409 80 ft Easting: 619602 00 ft	Latitude: 32 16 24.375 N Longitude: 103 56 46 904 W North Reference: Grid Grid Convergence: 0 21 deg

Well: Fed #1H	Slot Name:
Well Position: +N/-S 0.00 ft Position Uncertainty: 0.00 ft	Northing: 463409 80 ft Easting: 619602.00 ft
	Latitude: 32 16 24 375 N Longitude: 103 56 46 904 W

Wellpath: Pilot	Drilled From: Surface
Current Datum: SITE	Tie-on Depth: 0 00 ft
Magnetic Data: 5/1/2012	Above System Datum: Mean Sea Level
Field Strength: 48542 nT	Declination: 7 66 deg
Vertical Section: Depth From (TVD)	Mag Dip Angle: 60 15 deg
ft	+N/-S
ft	ft
ft	ft
0.00	0 00
	0 00
	303 70

Survey											
MD	Incl	Azim	TVD	N/S	E/W	DES	VS	MapN	MapE	Comment	
ft	deg	deg	ft	ft	ft	deg/100ft	ft	ft	ft	ft	
0 00	0 00	0 00	0.00	0 00	0 00	0.00	0 00	463409 80	619602 00		
90.92	0 55	312 53	90 92	0.29	-0 32	0.60	0 43	463410 09	619601 68		
178.69	0 75	247 34	178 68	0.36	-1 16	0.82	1 17	463410.16	619600 84		
266.61	1.23	240 29	266 59	-0 33	-2 51	0.56	1 91	463409.47	619599 49		
330 11	1.43	234 45	330 07	-1 13	-3.75	0 38	2 49	463408.67	619598 25		Tie on Gyro
340 00	1 40	233 58	339 96	-1 27	-3.95	0 38	2 58	463408.53	619598 05		Csg
419.00	1 17	225 03	418 94	-2 42	-5 29	0 38	3.06	463407.38	619596 71		First Wft Svy
511.00	1 28	224 45	510 92	-3.81	-6 68	0 12	3 44	463405.99	619595 32		
605 00	1 37	222 49	604 89	-5 39	-8 17	0 11	3 81	463404.41	619593 83		
698 00	1 33	221 69	697 87	-7 02	-9.64	0 05	4 13	463402.78	619592 36		
789 00	1.44	222 71	788 84	-8 65	-11 12	0 12	4 45	463401 15	619590 88		
884 00	1.64	219 95	883 81	-10 56	-12 80	0 22	4.79	463399.24	619589 20		
978 00	1.90	216 27	977 76	-12 85	-14.59	0.30	5 00	463396 95	619587 41		
1073 00	1 88	214 24	1072.71	-15 41	-16.40	0 07	5 09	463394 39	619585 60		
1167 00	0 65	211 67	1166.69	-17 14	-17 54	1 31	5 09	463392 66	619584 46		
1262.00	0.39	213 75	1261.68	-17 87	-18 01	0 27	5 07	463391 93	619583 99		
1357 00	0.46	210 45	1356 68	-18.46	-18 38	0 08	5.05	463391.34	619583 62		
1451 00	0 47	209 17	1450 68	-19.13	-18.76	0 02	4.99	463390.67	619583 24		
1546 00	0.55	214 46	1545 67	-19 84	-19.21	0 10	4 97	463389.96	619582 79		
1640.00	0 49	222 03	1639 67	-20 51	-19 73	0.10	5.03	463389 29	619582 27		
1735.00	0 36	218 37	1734 67	-21 05	-20 19	0 14	5 12	463388 75	619581.81		
1829.00	0 64	205 05	1828.66	-21 76	-20 59	0 32	5.06	463388 04	619581 41		
1924.00	0 87	202 87	1923 65	-22 90	-21 10	0 24	4.85	463386.90	619580 90		
2019 00	0 11	155 54	2018 65	-23.65	-21 34	0 84	4 63	463386 15	619580 66		



Weatherford International Ltd.

WFT Survey Report X & Y's

**Weatherford**

Company: Occidental Permian Ltd.	Date: 5/30/2012	Time: 09:44:15	Page: 2
Field: Eddy Co. NM (Nad 27)	Co-ordinate(NE) Reference:	Well: Fed #1H Grd North	
Site: Goodnight 26 Fed #1H	Vertical (TVD) Reference:	SITE: 3096.5	
Well: Fed #1H	Section (VS) Reference:	Well: (0.00N 0.00E 303.70Az)	
Wellpath: Pilot	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	DES deg/100ft	VS ft	MapN ft	MapE ft	Comment
2113.00	0.89	25.30	2112.65	-23.07	-20.99	1.03	4.66	463386.73	619581.01	
2208.00	1.08	25.47	2207.63	-21.60	-20.29	0.20	4.90	463388.20	619581.71	
2303.00	1.15	20.63	2302.61	-19.89	-19.57	0.12	5.24	463389.91	619582.43	
2397.00	1.01	16.22	2396.60	-18.22	-19.01	0.17	5.70	463391.58	619582.99	
2492.00	1.02	35.63	2491.58	-16.73	-18.28	0.36	5.93	463393.07	619583.72	
2586.00	1.10	64.75	2585.57	-15.66	-16.98	0.57	5.43	463394.14	619585.02	
2681.00	1.14	70.17	2680.55	-14.95	-15.26	0.12	4.40	463394.85	619586.74	
2775.00	1.28	55.36	2774.53	-14.04	-13.52	0.36	3.46	463395.76	619588.48	
2870.00	1.36	66.79	2869.50	-12.99	-11.61	0.29	2.45	463396.81	619590.39	
2965.00	1.17	46.41	2964.48	-11.88	-9.87	0.51	1.62	463397.92	619592.13	
3059.00	1.11	50.35	3058.46	-10.63	-8.47	0.10	1.15	463399.17	619593.53	
3083.00	1.17	46.77	3082.46	-10.32	-8.12	0.39	1.03	463399.48	619593.88	
3136.00	1.16	45.52	3135.45	-9.57	-7.34	0.05	0.80	463400.23	619594.66	
3150.00	1.15	44.67	3149.44	-9.37	-7.14	0.15	0.74	463400.43	619594.86	
3231.00	1.08	39.41	3230.43	-8.21	-6.09	0.15	0.51	463401.59	619595.91	
3325.00	1.03	33.98	3324.41	-6.82	-5.05	0.12	0.42	463402.98	619596.95	Csg
3420.00	1.12	26.21	3419.40	-5.28	-4.16	0.18	0.54	463404.52	619597.84	
3515.00	1.22	36.06	3514.38	-3.63	-3.16	0.24	0.61	463406.17	619598.84	
3609.00	1.14	23.90	3608.36	-1.96	-2.19	0.28	0.73	463407.84	619599.81	
3704.00	1.14	18.57	3703.34	-0.20	-1.51	0.11	1.14	463409.60	619600.49	
3798.00	1.14	19.22	3797.32	1.56	-0.90	0.01	1.62	463411.36	619601.10	
3893.00	1.08	17.01	3892.30	3.31	-0.33	0.08	2.11	463413.11	619601.67	
3987.00	1.13	20.08	3986.28	5.03	0.25	0.08	2.58	463414.83	619602.25	
4082.00	0.94	14.26	4081.27	6.67	0.76	0.23	3.06	463416.47	619602.76	
4177.00	0.89	7.86	4176.26	8.15	1.06	0.12	3.64	463417.95	619603.06	
4271.00	1.06	10.68	4270.24	9.73	1.32	0.19	4.30	463419.53	619603.32	
4366.00	0.95	10.09	4365.23	11.37	1.62	0.12	4.96	463421.17	619603.62	
4461.00	0.89	17.16	4460.22	12.85	1.97	0.14	5.49	463422.65	619603.97	
4555.00	0.89	9.94	4554.20	14.27	2.31	0.12	5.99	463424.07	619604.31	
4650.00	0.89	8.77	4649.19	15.72	2.55	0.02	6.60	463425.52	619604.55	
4744.00	0.86	16.00	4743.18	17.12	2.86	0.12	7.12	463426.92	619604.86	
4839.00	0.71	5.95	4838.17	18.39	3.12	0.21	7.61	463428.19	619605.12	
4934.00	0.64	7.08	4933.17	19.50	3.24	0.08	8.12	463429.30	619605.24	
5029.00	0.75	354.69	5028.16	20.65	3.25	0.20	8.75	463430.45	619605.25	
5123.00	0.77	10.26	5122.15	21.88	3.31	0.22	9.39	463431.68	619605.31	
5217.00	0.64	358.09	5216.14	23.03	3.40	0.21	9.95	463432.83	619605.40	
5312.00	0.75	1.69	5311.14	24.18	3.40	0.12	10.59	463433.98	619605.40	
5407.00	0.74	358.58	5406.13	25.42	3.41	0.04	11.27	463435.22	619605.41	
5501.00	0.20	273.45	5500.13	26.03	3.23	0.80	11.76	463435.83	619605.23	
5596.00	0.62	240.87	5595.12	25.79	2.61	0.49	12.14	463435.59	619604.61	
5691.00	0.73	251.72	5690.12	25.35	1.59	0.18	12.74	463435.15	619603.59	
5785.00	1.27	247.61	5784.10	24.77	0.06	0.58	13.69	463434.57	619602.06	
5880.00	1.20	243.23	5879.08	23.92	-1.80	0.12	14.77	463433.72	619600.20	
5975.00	1.28	245.29	5974.06	23.03	-3.66	0.10	15.82	463432.83	619598.34	
6069.00	1.20	242.31	6068.04	22.13	-5.48	0.11	16.84	463431.93	619596.52	
6164.00	1.30	242.14	6163.01	21.16	-7.32	0.11	17.83	463430.96	619594.68	
6258.00	1.38	235.47	6256.99	20.03	-9.19	0.19	18.76	463429.83	619592.81	
6353.00	1.37	234.74	6351.96	18.72	-11.06	0.02	19.59	463428.52	619590.94	
6448.00	1.33	238.67	6446.93	17.49	-12.93	0.11	20.46	463427.29	619589.07	
6542.00	1.29	234.65	6540.91	16.31	-14.72	0.11	21.30	463426.11	619587.28	
6637.00	1.08	231.65	6635.89	15.14	-16.30	0.23	21.96	463424.94	619585.70	
6731.00	0.94	235.91	6729.88	14.16	-17.63	0.17	22.52	463423.96	619584.37	



Weatherford International Ltd.

WFT Survey Report X & Y's



Weatherford

Company: Occidental Permian Ltd.	Date: 5/30/2012	Time: 09:44:15	Page: 3
Field: Eddy Co. NM (Nad.27)	Co-ordinate(NE) Reference:	Well: Fed #1H Grd North	
Site: Goodnight 26 Fed #1H	Vertical (TVD) Reference:	SITE 3096.5	
Well: Fed #1H	Section (VS) Reference:	Well (0.00N 0.00E 303.70Azi)	
Wellpath: Pilot	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	DLS deg/100ft	VS ft	MapN ft	MapE ft	Comment
6826.00	1.09	235.57	6824.86	13.21	-19.02	0.16	23.15	463423.01	619582.98	
6921.00	1.16	227.05	6919.84	12.04	-20.47	0.19	23.71	463421.84	619581.53	
7015.00	0.93	235.41	7013.83	10.96	-21.80	0.29	24.22	463420.76	619580.20	
7110.00	1.09	236.24	7108.81	10.02	-23.18	0.17	24.85	463419.82	619578.82	
7205.00	0.96	244.27	7203.80	9.17	-24.65	0.20	25.60	463418.97	619577.35	
7299.00	0.20	192.50	7297.79	8.67	-25.39	0.91	25.94	463418.47	619576.61	
7394.00	0.92	119.84	7392.79	8.13	-24.77	0.93	25.12	463417.93	619577.23	
7489.00	1.86	101.37	7487.76	7.45	-22.60	1.08	22.93	463417.25	619579.40	
7583.00	2.48	87.17	7581.69	7.25	-19.07	0.87	19.89	463417.05	619582.93	
7678.00	2.59	88.26	7676.60	7.41	-14.87	0.13	16.49	463417.21	619587.13	
7773.00	2.37	73.07	7771.51	8.05	-10.85	0.73	13.49	463417.85	619591.15	
7867.00	1.86	66.09	7865.45	9.23	-7.59	0.61	11.44	463419.03	619594.41	
7962.00	2.09	61.72	7960.39	10.68	-4.66	0.29	9.80	463420.48	619597.34	
8057.00	1.65	70.40	8055.34	11.96	-1.84	0.55	8.17	463421.76	619600.16	
8151.00	1.37	83.71	8149.31	12.54	0.55	0.48	6.50	463422.34	619602.55	
8246.00	1.39	94.26	8244.28	12.58	2.83	0.27	4.63	463422.38	619604.83	
8341.00	1.35	82.39	8339.25	12.64	5.08	0.30	2.78	463422.44	619607.08	
8435.00	1.64	99.78	8433.22	12.56	7.51	0.57	0.72	463422.36	619609.51	
8530.00	1.27	114.79	8528.19	11.88	9.80	0.56	-1.56	463421.68	619611.80	
8625.00	0.20	166.64	8623.18	11.28	10.80	1.22	-2.72	463421.08	619612.80	
8719.00	0.15	227.44	8717.18	11.04	10.74	0.19	-2.81	463420.84	619612.74	
8814.00	0.95	286.43	8812.18	11.18	9.90	0.93	-2.03	463420.98	619611.90	
8909.00	1.52	271.30	8907.15	11.43	7.88	0.69	-0.22	463421.23	619609.88	
9004.00	2.08	265.15	9002.11	11.31	4.91	0.62	2.20	463421.11	619606.91	
9098.00	2.28	263.42	9096.04	10.95	1.35	0.22	4.96	463420.75	619603.35	
9193.00	2.81	258.44	9190.94	10.27	-2.81	0.60	8.04	463420.07	619599.19	
9236.00	2.94	250.25	9233.89	9.69	-4.88	1.00	9.44	463419.49	619597.12	Last Wft Svy
9300.00	2.94	250.25	9297.81	8.58	-7.97	0.00	11.39	463418.38	619594.03	Proj. to Bit

Annotation

MD ft	TVD ft	
330.11	330.07	Tie on Gyro
419.00	418.94	First Wft Svy
9236.00	9233.89	Last Wft Svy
9300.00	9297.81	Proj. to Bit



Weatherford International Ltd.

WFT Survey Report X & Y's

**Weatherford**

Company: Occidental Permian Ltd.	Date: 5/29/2012	Time: 08:43:44	Page: 1
Field: Eddy Co, NM (Nad 27)	Co-ordinate(NE) Reference:	Well: Fed #1H Grid North	
Site: Goodnight 26 Fed #1H	Vertical (TVD) Reference:	SITE 3096.5	
Well: Fed #1H	Section (VS) Reference:	Well (0.00N 0.00E 303.70Azi)	
Wellpath: Hz	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey: Wft Svy	Start Date: 5/7/2012
Company: Weatherford International Ltd	Engineer: Patrick Rudolph
Tool: MWD/MWD - Standard	Tied-to: User Defined

Field: Eddy Co, NM (Nad 27)

Map System: US State Plane Coordinate System 1927	Map Zone: New Mexico, Eastern Zone
Geo Datum: NAD27 (Clarke 1866)	Coordinate System: Well Centre
Sys Datum: Mean Sea Level	Geomagnetic Model: IGRF2010

Site: Goodnight 26 Fed #1H

Site Position:	Northing:	463409.80 ft	Latitude:	32 16 24.375 N
From: Map	Easting:	619602.00 ft	Longitude:	103 56 46.904 W
Position Uncertainty: 0.00 ft			North Reference:	Grid
Ground Level: 3071.50 ft			Grid Convergence:	0.21 deg

Well: Fed #1H	Slot Name:	
Well Position: +N/-S 0.00 ft	Northing: 463409.80 ft	Latitude: 32 16 24.375 N
+E/-W 0.00 ft	Easting: 619602.00 ft	Longitude: 103 56 46.904 W
Position Uncertainty: 0.00 ft		

Wellpath: Hz	Drilled From: Pilot		
Current Datum: SITE	Tie-on Depth: 8246.00 ft		
Magnetic Data: 5/1/2012	Above System Datum: Mean Sea Level		
Field Strength: 48542 nT	Declination: 7.66 deg		
Vertical Section: Depth From (TVD)	Mag Dip Angle: 60.15 deg		
ft	+N/-S	+E/-W	Direction
	ft	ft	deg
0.00	0.00	0.00	303.70

Survey

MD	Incl	Azim	TVD	N/S	E/W	DES	VS	MapN	MapE	Comment
ft	deg	deg	ft	ft	ft	deg/100ft	ft	ft	ft	
8246.00	1.39	94.26	8244.28	12.58	2.83	0.00	4.63	463422.38	619604.83	Tie on Wft
8255.00	1.02	82.29	8253.28	12.58	3.01	4.95	4.47	463422.38	619605.01	First Wft Svy
8286.00	0.71	2.37	8284.27	12.81	3.30	3.67	4.36	463422.61	619605.30	
8318.00	3.16	312.57	8316.25	13.60	2.65	8.61	5.34	463423.40	619604.65	
8349.00	6.44	307.41	8347.14	15.24	0.64	10.66	7.92	463425.04	619602.64	
8381.00	10.07	305.07	8378.81	17.94	-3.07	11.39	12.51	463427.74	619598.93	
8413.00	13.15	307.39	8410.15	21.75	-8.26	9.73	18.94	463431.55	619593.74	
8444.00	16.02	308.03	8440.14	26.53	-14.43	9.27	26.72	463436.33	619587.57	
8476.00	19.25	309.09	8470.64	32.58	-22.00	10.14	36.38	463442.38	619580.00	
8507.00	22.17	309.19	8499.63	39.50	-30.50	9.42	47.29	463449.30	619571.50	
8539.00	24.84	310.08	8528.97	47.64	-40.33	8.42	59.99	463457.44	619561.67	
8570.00	27.18	310.62	8556.83	56.45	-50.69	7.59	73.49	463466.25	619551.31	
8602.00	29.32	310.81	8585.02	66.33	-62.16	6.69	88.52	463476.13	619539.84	
8634.00	30.84	310.17	8612.71	76.74	-74.36	4.85	104.45	463486.54	619527.64	
8665.00	32.60	308.38	8639.08	87.05	-86.98	6.44	120.67	463496.85	619515.02	
8697.00	34.04	306.04	8665.82	97.67	-100.98	6.03	138.21	463507.47	619501.02	
8728.00	35.67	303.94	8691.26	107.83	-115.50	6.53	155.92	463517.63	619486.50	
8760.00	37.72	302.92	8716.91	118.36	-131.46	6.68	175.04	463528.16	619470.54	
8792.00	40.34	302.80	8741.77	129.29	-148.38	8.19	195.18	463539.09	619453.62	
8823.00	42.66	302.88	8764.99	140.43	-165.64	7.49	215.72	463550.23	619436.36	
8855.00	45.25	303.51	8788.02	152.59	-184.22	8.21	237.93	463562.39	619417.78	
8886.00	47.57	303.67	8809.39	165.01	-202.93	7.49	260.38	463574.81	619399.07	
8918.00	49.37	303.68	8830.61	178.29	-222.86	5.63	284.34	463588.09	619379.14	
8949.00	51.04	303.57	8850.45	191.48	-242.69	5.39	308.15	463601.28	619359.31	



Weatherford International Ltd.

WFT Survey Report X & Y's



Weatherford®

Company: Occidental Permian Ltd. Date: 5/29/2012 Time: 08:43:44 Page: 2
Field: Eddy Co. NM (Nad-27) Co-ordinate(NE) Reference: Well: Fed #1H Grid North
Site: Goodnight 26 Fed #1H Vertical (TVD) Reference: SITE 3096.5
Well: Fed #1H Section (VS) Reference: Well (0.00N, 0.00E, 303.70Azi)
Wellpath: Hz Survey Calculation Method: Minimum Curvature Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	DLS deg/100ft	VS ft	MapN ft	MapE ft	Comment
8981.00	54.30	302.98	8869.85	205.44	-263.97	10.29	333.59	463615.24	619338.03	
9012.00	57.64	302.37	8887.20	219.30	-285.59	10.90	359.28	463629.10	619316.41	
9046.00	60.60	301.85	8904.65	234.81	-310.30	8.80	388.44	463644.61	619291.70	
9077.00	62.32	301.50	8919.46	249.11	-333.48	5.64	415.66	463658.91	619268.52	
9108.00	63.89	301.92	8933.48	263.64	-357.00	5.21	443.29	463673.44	619245.00	
9136.00	66.33	302.35	8945.26	277.15	-378.50	8.82	468.67	463686.95	619223.50	
9171.00	69.91	302.99	8958.30	294.68	-405.84	10.37	501.14	463704.48	619196.16	
9203.00	72.26	303.35	8968.68	311.24	-431.18	7.42	531.41	463721.04	619170.82	
9234.00	74.58	303.73	8977.52	327.66	-455.94	7.58	561.12	463737.46	619146.06	
9266.00	76.76	303.54	8985.44	344.83	-481.75	6.84	592.12	463754.63	619120.25	
9298.00	79.34	303.89	8992.07	362.21	-507.79	8.13	623.43	463772.01	619094.21	
9329.00	81.81	304.10	8997.14	379.31	-533.14	8.00	654.01	463789.11	619068.86	
9361.00	84.15	304.20	9001.05	397.13	-559.42	7.32	685.76	463806.93	619042.58	
9392.00	86.81	304.19	9003.50	414.50	-584.98	8.58	716.66	463824.30	619017.02	
9424.00	89.34	304.78	9004.57	432.61	-611.34	8.12	748.64	463842.41	618990.66	
9456.00	90.10	304.80	9004.73	450.86	-637.62	2.38	780.63	463860.66	618964.38	
9550.00	91.50	305.03	9003.42	504.66	-714.69	1.51	874.60	463914.46	618887.31	
9645.00	93.11	304.57	8999.59	558.83	-792.64	1.76	969.50	463968.63	618809.36	
9740.00	94.02	304.48	8993.69	612.57	-870.75	0.96	1064.31	464022.37	618731.25	
9834.00	94.16	303.41	8986.98	664.92	-948.53	1.15	1158.06	464074.72	618653.47	
9929.00	92.28	303.15	8981.65	716.97	-1027.82	2.00	1252.91	464126.77	618574.18	
10024.00	91.15	303.23	8978.80	768.95	-1107.29	1.19	1347.86	464178.75	618494.71	
10118.00	91.64	303.35	8976.52	820.53	-1185.84	0.54	1441.83	464230.33	618416.16	
10213.00	91.15	302.10	8974.20	871.87	-1265.74	1.41	1536.79	464281.67	618336.26	
10307.00	91.08	301.89	8972.37	921.67	-1345.44	0.24	1630.73	464331.47	618256.56	
10402.00	90.52	301.09	8971.05	971.28	-1426.44	1.03	1725.64	464381.08	618175.56	
10496.00	91.50	301.36	8969.39	1020.00	-1506.81	1.08	1819.54	464429.80	618095.19	
10591.00	90.60	301.86	8967.65	1069.79	-1587.70	1.08	1914.46	464479.59	618014.30	
10685.00	91.57	302.33	8965.87	1119.72	-1667.32	1.15	2008.41	464529.52	617934.68	
10780.00	91.15	303.32	8963.61	1171.20	-1747.13	1.13	2103.37	464581.00	617854.87	
10874.00	88.98	303.24	8963.51	1222.78	-1825.71	2.31	2197.36	464632.58	617776.29	
10969.00	88.92	303.44	8965.25	1274.99	-1905.06	0.22	2292.34	464684.79	617696.94	
11064.00	89.48	303.86	8966.57	1327.62	-1984.13	0.74	2387.33	464737.42	617617.87	
11158.00	90.03	303.98	8966.98	1380.08	-2062.13	0.60	2481.33	464789.88	617539.87	
11253.00	90.80	304.25	8966.29	1433.36	-2140.78	0.86	2576.32	464843.16	617461.22	
11347.00	91.71	304.91	8964.23	1486.69	-2218.16	1.20	2670.29	464896.49	617383.84	
11442.00	92.49	305.45	8960.75	1541.39	-2295.75	1.00	2765.19	464951.19	617306.25	
11537.00	91.64	305.44	8957.33	1596.45	-2373.09	0.89	2860.08	465006.25	617228.91	
11631.00	92.42	305.81	8954.00	1651.16	-2449.45	0.92	2953.97	465060.96	617152.55	
11726.00	91.44	304.38	8950.80	1705.75	-2527.14	1.82	3048.89	465115.55	617074.86	
11821.00	91.15	304.01	8948.65	1759.13	-2605.69	0.49	3143.86	465168.93	616996.31	
11915.00	90.52	304.07	8947.28	1811.74	-2683.58	0.67	3237.85	465221.54	616918.42	
12010.00	90.88	304.29	8946.12	1865.11	-2762.16	0.44	3332.84	465274.91	616839.84	
12104.00	91.09	303.95	8944.50	1917.82	-2839.97	0.43	3426.82	465327.62	616762.03	
12199.00	91.85	303.99	8942.07	1970.89	-2918.73	0.80	3521.79	465380.69	616683.27	
12294.00	91.16	304.41	8939.57	2024.27	-2997.27	0.85	3616.75	465434.07	616604.73	
12389.00	89.83	304.01	8938.75	2077.68	-3075.83	1.46	3711.74	465487.48	616526.17	
12483.00	90.60	304.11	8938.40	2130.32	-3153.71	0.83	3805.74	465540.12	616448.29	
12578.00	90.52	303.96	8937.47	2183.49	-3232.43	0.18	3900.73	465593.29	616369.57	
12672.00	90.66	303.45	8936.50	2235.65	-3310.62	0.56	3994.72	465645.45	616291.38	
12767.00	90.31	302.95	8935.70	2287.67	-3390.11	0.64	4089.72	465697.47	616211.89	
12861.00	90.03	302.65	8935.42	2338.59	-3469.13	0.44	4183.70	465748.39	616132.87	



Weatherford International Ltd.

WFT Survey Report X & Y's



Weatherford

Company: Occidental Permian Ltd.	Date: 5/29/2012	Time: 08:43:44	Page: 3
Field: Eddy Co. NM (Nad 27)	Co-ordinate(NE) Reference: Well: Fed #1H, Grid North		
Site: Goodnight 26 Fed #1H	Vertical (TVD) Reference: SITE 3096.5		
Well: Fed #1H	Section (VS) Reference: Well (0:00N,0:00E,303.70Azi)		
Wellpath: HZ	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	DLS deg/100ft	VS ft	MapN ft	MapE ft	Comment
12956.00	89.48	302.27	8935.82	2389.57	-3549.28	0.70	4278.68	465799.37	616052.72	
13050.00	89.62	301.55	8936.56	2439.26	-3629.07	0.78	4372.63	465849.06	615972.93	
13145.00	90.10	301.49	8936.79	2488.92	-3710.06	0.51	4467.56	465898.72	615891.94	
13293.00	90.38	301.24	8936.17	2565.95	-3836.43	0.25	4615.44	465975.75	615765.57	
13334.00	91.02	301.17	8935.67	2587.19	-3871.49	1.57	4656.40	465996.99	615730.51	
13429.00	90.46	301.40	8934.45	2636.52	-3952.67	0.64	4751.30	466046.32	615649.33	
13523.00	90.95	301.30	8933.29	2685.42	-4032.94	0.53	4845.22	466095.22	615569.06	
13618.00	91.64	301.54	8931.14	2734.94	-4113.99	0.77	4940.12	466144.74	615488.01	
13713.00	92.76	301.46	8927.50	2784.54	-4194.93	1.18	5034.97	466194.34	615407.07	
13807.00	91.85	302.40	8923.72	2834.21	-4274.64	1.39	5128.85	466244.01	615327.36	
13902.00	92.34	302.15	8920.24	2884.90	-4354.91	0.58	5223.76	466294.70	615247.09	
13997.00	93.12	302.22	8915.72	2935.45	-4435.22	0.82	5318.62	466345.25	615166.78	
14091.00	93.81	302.12	8910.04	2985.41	-4514.64	0.74	5412.41	466395.21	615087.36	
14186.00	94.38	301.95	8903.25	3035.67	-4594.97	0.63	5507.13	466445.47	615007.03	Last Wft Svy
14266.00	94.38	301.95	8897.14	3077.88	-4662.65	0.00	5586.86	466487.68	614939.35	Proj. to Bit

Annotation

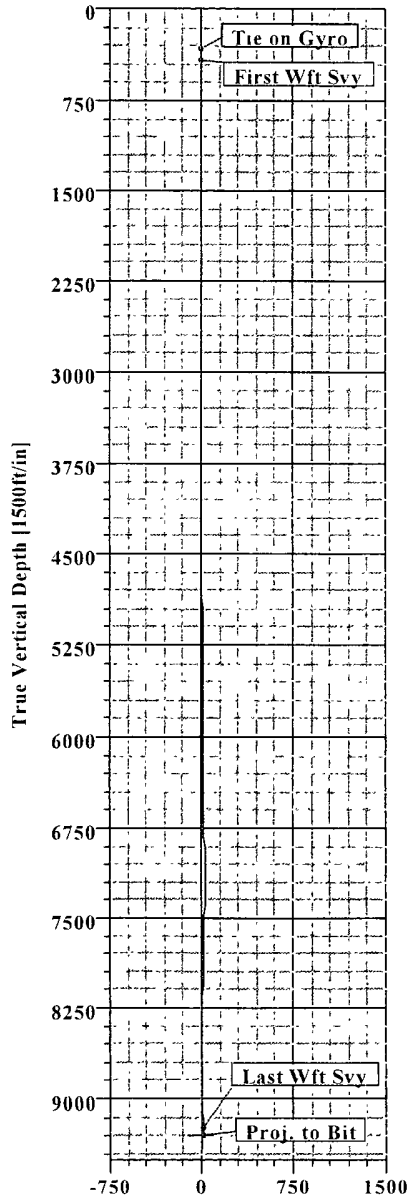
MD ft	TVD ft	
8246.00	8244.28	Tie on Wft
8255.00	8253.28	First Wft Svy
14186.00	8903.25	Last Wft Svy
14266.00	8897.14	Proj. to Bit



Goodnight 26 Fed #1H Eddy Co, New Mexico



KB ELEV: 3096.5
GL ELEV: 3071.5



SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	9300.00	0.00	0.00	9300.00	0.00	0.00	0.00	0.00	0.00	PBHL Pilot

WELL DETAILS							
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
Fed #1H	0.00	0.00	463409.80	619602.00	32°16'24.375N	103°56'46.904W	N/A

TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape	
PBHL Pilot	9300.00	0.00	0.00	463409.80	619602.00	Point	

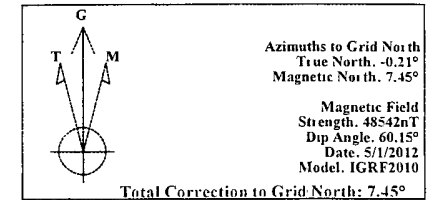
Survey: Wft Svy (Fed #1H/Pilot)										
No	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	
102	9300.00	2.94	250.25	9297.81	8.58	-7.97	0.00	0.00	11.39	

FIELD DETAILS	
Eddy Co, NM (Nad 27)	
Geodetic System:	US State Plane Coordinate System 1927
Ellipsoid:	NAD27 (Clarke 1866)
Zone:	New Mexico, Eastern Zone
Magnetic Model:	IGRF2010
System Datum:	Mean Sea Level
Local North:	Grid North

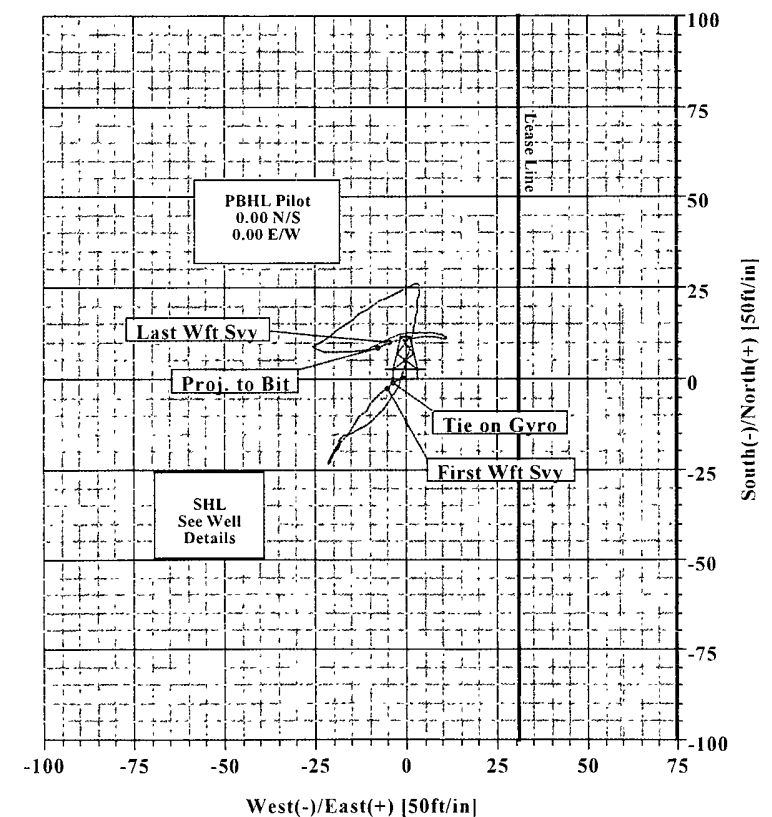
SITE DETAILS	
Goodnight 26 Fed #1H	
Site Centre Northing:	463409.80
Easting:	619602.00
Ground Level:	3071.50
Positional Uncertainty:	0.00
Convergence:	0.21



Weatherford



LEGEND	
	Fed #1H, Pilot, Plan #2
	Pilot
	Wft Svy

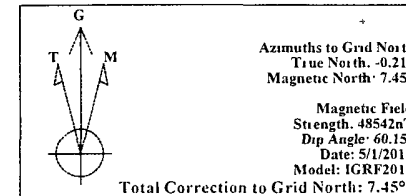


Survey: Wft Svy (Fed #1H/Pilot)	
Created By: Patrick Rudolph	Date: 5/30/2012

SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	8246.00	1.39	94.26	8244.28	12.58	2.83	0.00	0.00	4.63	
2	8271.20	1.37	91.19	8269.47	12.55	3.43	0.30	256.07	4.11	
3	9424.02	91.06	303.47	9000.00	422.74	-599.71	8.00	-147.69	733.49	
4	14268.94	91.06	303.47	8910.00	3094.30	-4640.50	0.00	0.00	5577.54	PBHL



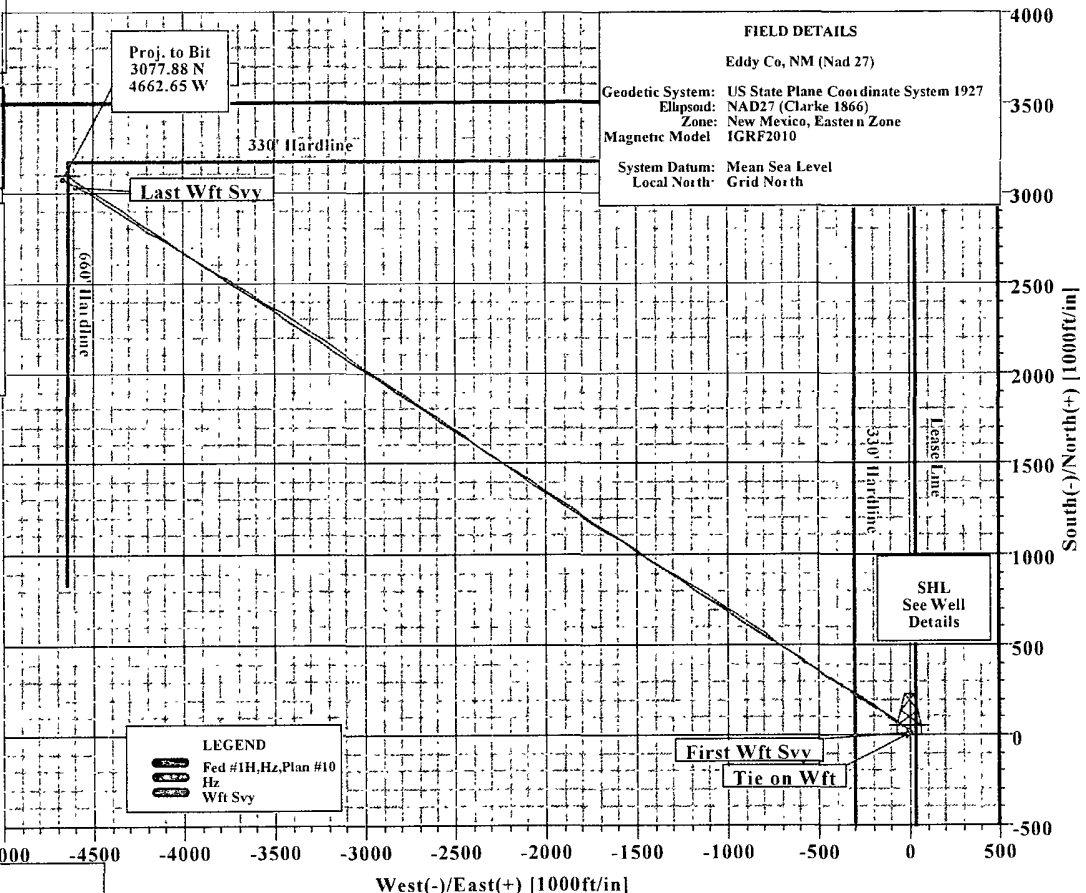
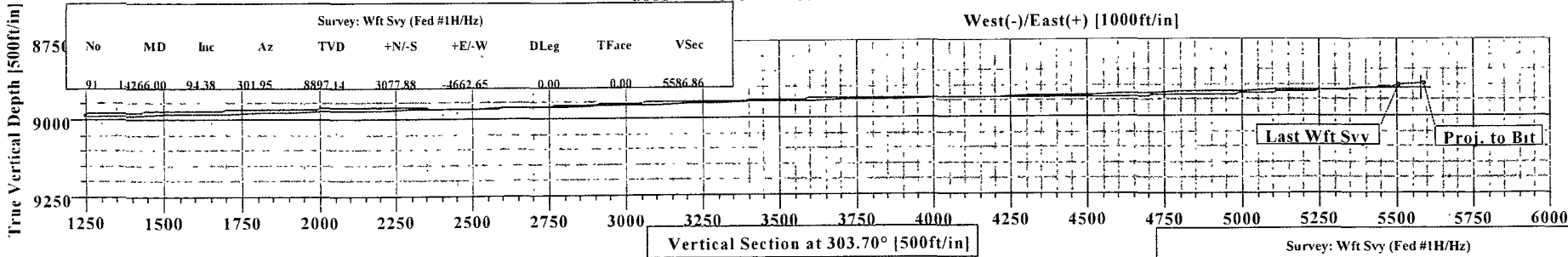
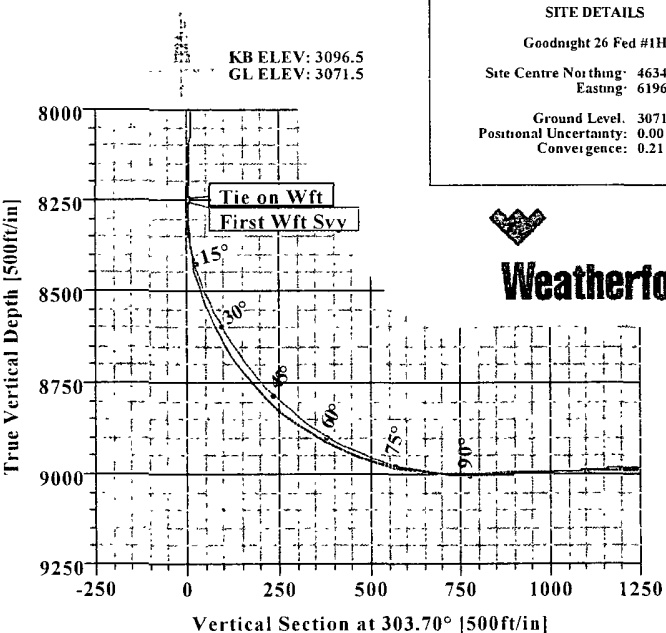
Goodnight 26 Fed #1H
Eddy Co, New Mexico



WELL DETAILS							
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
Fed #1H	0.00	0.00	463409.80	619602.00	32°16'24.375N	103°56'46.904W	N/A

TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PBHL	8910.00	3094.30	-4640.50	466504.10	614961.50	Point

SITE DETAILS	
Goodnight 26 Fed #1H	
Site Centre Northing:	463409.80
Easting:	619602.00
Ground Level:	3071.50
Positional Uncertainty:	0.00
Convergence:	0.21



FIELD DETAILS	
Eddy Co, NM (Nad 27)	
Geodetic System:	US State Plane Coordinate System 1927
Ellipsoid:	NAD27 (Clarke 1866)
Zone:	New Mexico, Eastern Zone
Magnetic Model:	IGRF2010
System Datum:	Mean Sea Level
Local North:	Grid North

SHL See Well Details

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 & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-402
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 30-015-40007	Pool Code 96857	Pool Name LAGUNA SALADO BONE SPRINGS, SOUTH
Property Code 39107	Property Name GOODNIGHT 26 FEDERAL	Well Number 1H
OGRID No. 16696	Operator Name OXY USA INC.	Elevation 3071.5'

Surface Location

NMOCD ARTESIA

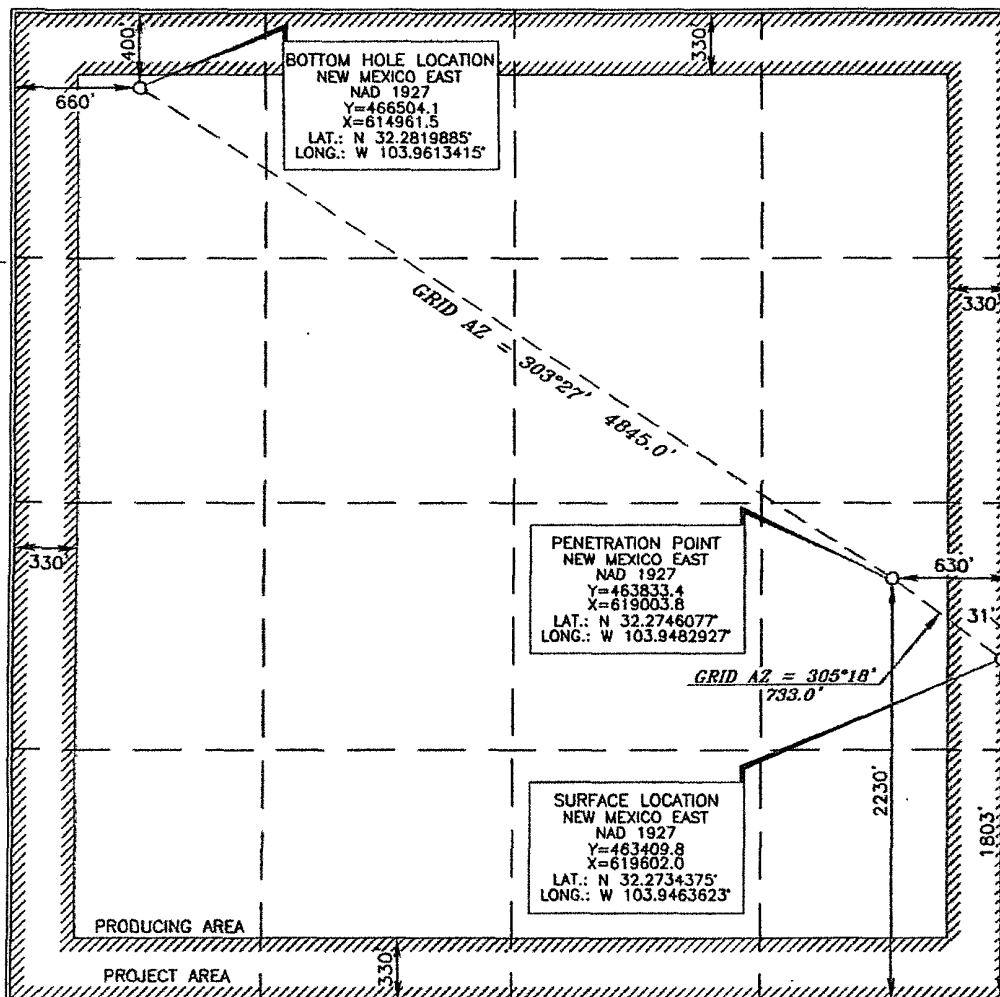
UL or lot no. I	Section 26	Township 23 SOUTH	Range 29 EAST, N.M.P.M.	Lot Idn	Feet from the 1803'	North/South line SOUTH	Feet from the 31'	East/West line EAST	County EDDY
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Bottom Hole Location If Different From Surface

UL or lot no. D	Section 26	Township 23 SOUTH	Range 29 EAST, N.M.P.M.	Lot Idn	Feet from the 400'	North/South line NORTH	Feet from the 660'	East/West line WEST	County EDDY
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Dedicated Acres 640	Joint or Infill	Consolidation Code	Order No.
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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.



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 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.

David Stewart-Reg. Adv.
Signature Date

David Stewart-Reg. Adv.
Printed Name

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was derived 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.

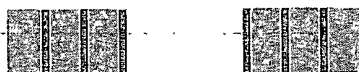
SEP 18 2012
Date of Survey

Tommy A. Abel
Signature and Seal of Professional Surveyor

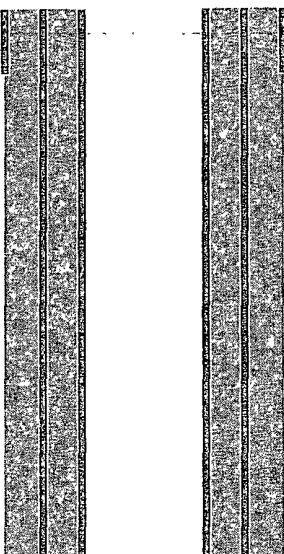
Tommy A. Abel
Certificate Number 15079

WD# 080825WL-c (Rev. D) (KA)

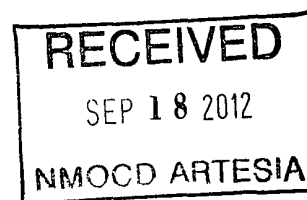
OXY USA Inc.
Goodnight 26 Federal #1H
API No. 30-015-40007



17-1/2" hole @ 340'
13-3/8" csg @ 340'
w/ 440sx-TOC-Surf-Circ

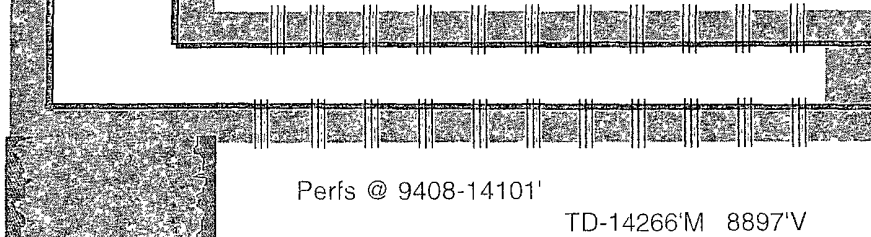


12-1/4" hole @ 3096'
9-5/8" csg @ 3096'
w/ 1150sx-TOC-Surf-Circ



8-3/4" hole @ 14236'
5-1/2" csg @ 14236'
DVT @ 5978' Post @ 3192'
w/ 3720sx-TOC-Surf-Circ

620sx cmt @ 9303-7977'



Perfs @ 9408-14101'

TD-14266'M 8897'V

TD-9303'