

30-025-40720



Weatherford

HOBBS OCD

AUG 14 2012

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Drilling Services

Proposal

OCCIDENTAL PERMIAN LTD.

NBR 18 STATE #3H

LEA COUNTY, NEW MEXICO

WELL FILE: PLAN 2

AUGUST 9, 2012

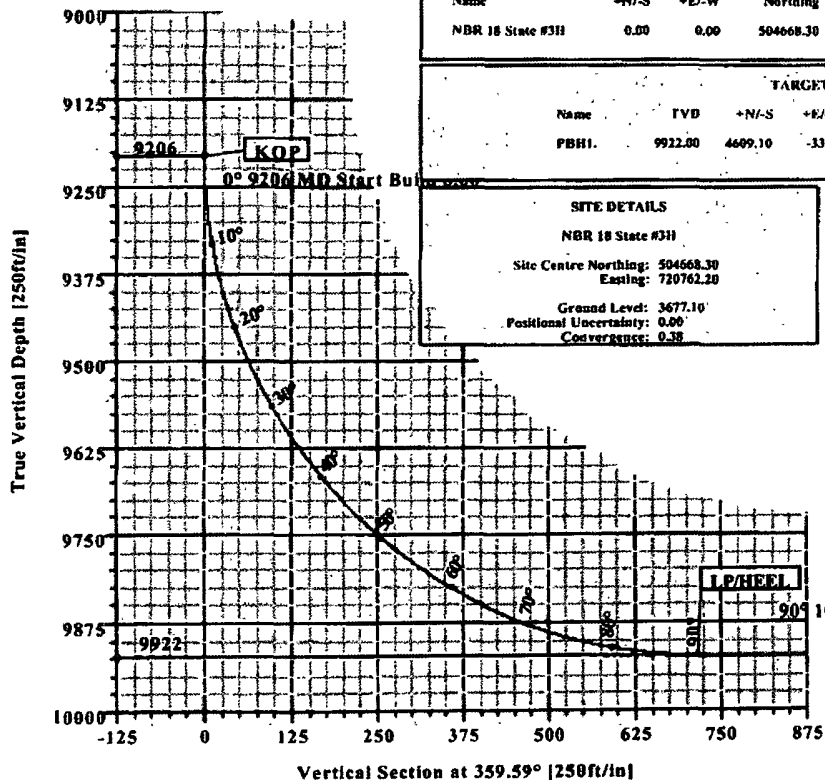
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AUG 15 2012



NBR 18 State #3H
Lea Co, New Mexico

KB ELEV: 3702.10
GL ELEV: 3677.10



SECTION DETAILS										
Sec	MD	Inc	Azd	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	359.59	0.00	0.00	0.00	0.00	0.00	0.00	
2	9205.80	0.00	359.59	9205.80	0.00	0.00	0.00	0.00	0.00	
3	10330.80	90.00	359.59	9922.00	716.18	-5.17	8.00	359.59	716.30	
4	14223.83	90.00	359.59	9922.00	4609.10	-33.30	0.00	0.00	4609.22	PBHL

WELL DETAILS							
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
NBR 18 State #3H	0.00	0.00	504668.30	720762.20	32°23'07.509N	103°37'05.467W	N/A

TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape	
PBHL	9922.00	4609.10	-33.30	509277.40	720728.90	Point	

SITE DETAILS		
NBR 18 State #3H		
Site Centre Northing:	504668.30	
Easting:	720762.20	
Ground Level:	3677.10	
Positional Uncertainty:	0.00	
Convergence:	0.38	

FIELD DETAILS
Lea Co, New Mexico (Nad 27)

G
T
M

Azimuths to Grid North
True North: -0.38°
Magnetic North: 7.08°

Magnetic Field
Strength: 48604nT
Dip Angle: 60.30°
Date: 10/12/2012
Model: IGRF2010

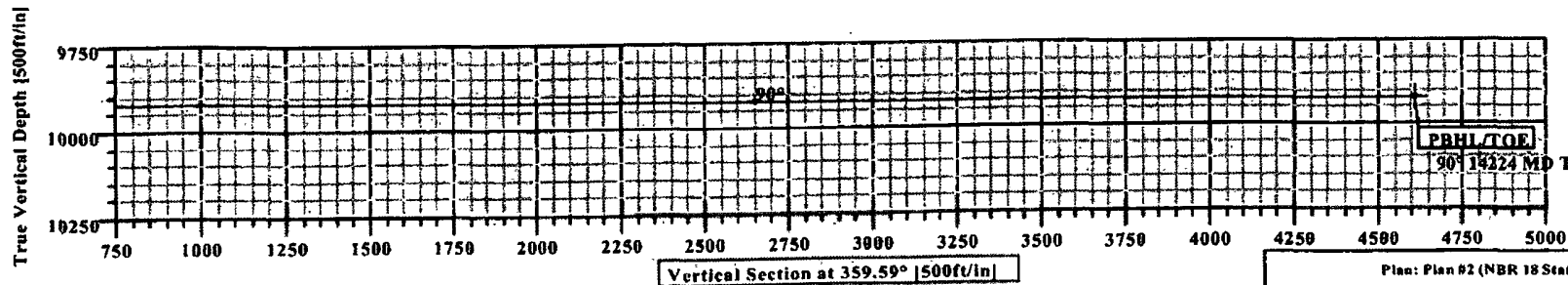
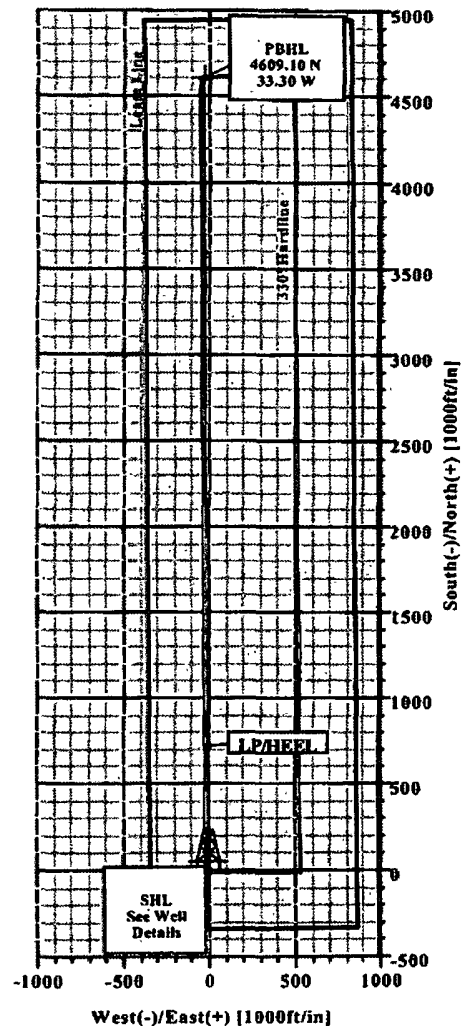
Total Correction to Grid North: 7.08°

FIELD DETAILS
Lea Co, New Mexico (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

LEGEND	
	Plan #1
	Plan #2



Plan: Plan #2 (NBR 18 State #3H/1)
Created By: Keith Noack
Date: 8/9/2012



Weatherford International Ltd.

WFT Plan Report - X & Y's



Company: Occidental Permian Ltd.		Date: 8/9/2012		Time: 11:36:28		Page: 1	
Field: Lea Co, New Mexico (Nad 27)		Co-ordinate(NE) Reference: Well: NBR 18 State #3H, Grid North					
Site: NBR 18 State #3H		Vertical (TVD) Reference: SITE 3702.1					
Well: NBR 18 State #3H		Section (VS) Reference: Well (0.00N,0.00E,359.59Azi)					
Wellpath: 1		Survey Calculation Method: Minimum Curvature				Db: Sybase	

Plan: Plan #2	Date Composed: 3/26/2012
Principal: Yes	Version: 1
	Tied-to: From Surface

Field: Lea Co, New Mexico (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: NBR 18 State #3H		
Site Position:	Northing: 504668.30 ft	Latitude: 32 23 7.509 N
From: Map	Easting: 720762.20 ft	Longitude: 103 37 5.467 W
Position Uncertainty: 0.00 ft		North Reference: Grid
Ground Level: 3677.10 ft		Grid Convergence: 0.38 deg

Well: NBR 18 State #3H		Slot Name:	
Well Position:	+N/-S 0.00 ft	Northing: 504668.30 ft	Latitude: 32 23 7.509 N
	+E/-W 0.00 ft	Easting: 720762.20 ft	Longitude: 103 37 5.467 W
Position Uncertainty: 0.00 ft			

Wellpath: 1		Drilled From: Surface	
Current Datum: SITE	Height 3702.10 ft	Tie-on Depth: 0.00 ft	
Magnetic Data: 10/1/2012		Above System Datum: Mean Sea Level	
Field Strength: 48804 aT		Declination: 7.46 deg	
Vertical Section: Depth From (TVD)	+N/-S	+E/-W	Direction
ft	ft	ft	deg
0.00	0.00	0.00	359.59

Plan Section Information										
MD ft	Incl deg	Azlm deg	TVD ft	+N/-S ft	+E/-W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg	Target
0.00	0.00	359.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9205.80	0.00	359.59	9205.80	0.00	0.00	0.00	0.00	0.00	0.00	
10330.80	90.00	359.59	9922.00	716.18	-5.17	8.00	8.00	0.00	359.59	
14223.83	90.00	359.59	9922.00	4609.10	-33.30	0.00	0.00	0.00	0.00	PBHL

Survey										
MD ft	Incl deg	Azlm deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comment
9200.00	0.00	359.59	9200.00	0.00	0.00	0.00	0.00	504668.30	720762.20	
9205.80	0.00	359.59	9205.80	0.00	0.00	0.00	0.00	504668.30	720762.20	KOP
9300.00	7.54	359.59	9299.73	6.19	-0.04	6.19	8.00	504674.49	720762.16	
9400.00	15.54	359.59	9397.63	26.17	-0.19	26.17	8.00	504694.47	720762.01	
9500.00	23.54	359.59	9491.80	59.58	-0.43	59.58	8.00	504727.88	720761.77	
9600.00	31.54	359.59	9580.40	105.77	-0.76	105.77	8.00	504774.07	720761.44	
9700.00	39.54	359.59	9661.71	163.84	-1.18	163.85	8.00	504832.14	720761.02	
9800.00	47.54	359.59	9734.14	232.67	-1.68	232.67	8.00	504900.97	720760.52	
9900.00	55.54	359.59	9796.29	310.90	-2.25	310.91	8.00	504979.20	720759.95	
10000.00	63.54	359.59	9846.95	397.02	-2.87	397.03	8.00	505065.32	720759.33	
10100.00	71.54	359.59	9885.13	489.36	-3.54	489.37	8.00	505157.66	720758.66	
10200.00	79.54	359.59	9910.09	586.11	-4.23	586.12	8.00	505254.41	720757.97	
10300.00	87.54	359.59	9921.34	685.39	-4.95	685.40	8.00	505353.69	720757.25	
10330.80	90.00	359.59	9922.00	716.18	-5.17	716.20	8.00	505384.48	720757.03	LP/HEEL
10400.00	90.00	359.59	9922.00	785.37	-5.87	785.39	0.00	505453.67	720756.53	
10500.00	90.00	359.59	9922.00	885.37	-6.40	885.39	0.00	505553.67	720755.80	
10600.00	90.00	359.59	9922.00	985.37	-7.12	985.39	0.00	505653.67	720755.08	



Weatherford International Ltd.

WFT Plan Report - X & Y's



Weatherford

Company: Occidental Permian Ltd.	Date: 8/9/2012	Time: 11:36:28	Page: 2
Field: Lea Co, New Mexico (Nad 27)	Co-ordinate(NE) Reference: Well: NBR 18 State #3H, Grid North		
Site: NBR 18 State #3H	Vertical (TVD) Reference: SITE 3702.1		
Well: NBR 18 State #3H	Section (VS) Reference: Well (0.00N,0.00E,359.59Azi)		
Wellpath: 1	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comment
10700.00	90.00	359.59	9922.00	1085.37	-7.84	1085.39	0.00	505753.67	720754.38	
10800.00	90.00	359.59	9922.00	1185.36	-8.56	1185.39	0.00	505853.66	720753.64	
10900.00	90.00	359.59	9922.00	1285.36	-9.29	1285.39	0.00	505953.66	720752.91	
11000.00	90.00	359.59	9922.00	1385.36	-10.01	1385.39	0.00	506053.66	720752.19	
11100.00	90.00	359.59	9922.00	1485.36	-10.73	1485.39	0.00	506153.66	720751.47	
11200.00	90.00	359.59	9922.00	1585.35	-11.45	1585.39	0.00	506253.65	720750.75	
11300.00	90.00	359.59	9922.00	1685.35	-12.18	1685.39	0.00	506353.65	720750.02	
11400.00	90.00	359.59	9922.00	1785.35	-12.90	1785.39	0.00	506453.65	720749.30	
11500.00	90.00	359.59	9922.00	1885.35	-13.62	1885.39	0.00	506553.65	720748.58	
11600.00	90.00	359.59	9922.00	1985.34	-14.34	1985.39	0.00	506653.64	720747.86	
11700.00	90.00	359.59	9922.00	2085.34	-15.07	2085.39	0.00	506753.64	720747.13	
11800.00	90.00	359.59	9922.00	2185.34	-15.79	2185.39	0.00	506853.64	720746.41	
11900.00	90.00	359.59	9922.00	2285.33	-16.51	2285.39	0.00	506953.63	720745.69	
12000.00	90.00	359.59	9922.00	2385.33	-17.23	2385.39	0.00	507053.63	720744.97	
12100.00	90.00	359.59	9922.00	2485.33	-17.96	2485.39	0.00	507153.63	720744.24	
12200.00	90.00	359.59	9922.00	2585.33	-18.68	2585.39	0.00	507253.63	720743.52	
12300.00	90.00	359.59	9922.00	2685.32	-19.40	2685.39	0.00	507353.62	720742.80	
12400.00	90.00	359.59	9922.00	2785.32	-20.12	2785.39	0.00	507453.62	720742.08	
12500.00	90.00	359.59	9922.00	2885.32	-20.85	2885.39	0.00	507553.62	720741.35	
12600.00	90.00	359.59	9922.00	2985.32	-21.57	2985.39	0.00	507653.62	720740.63	
12700.00	90.00	359.59	9922.00	3085.31	-22.29	3085.39	0.00	507753.61	720739.91	
12800.00	90.00	359.59	9922.00	3185.31	-23.01	3185.39	0.00	507853.61	720739.19	
12900.00	90.00	359.59	9922.00	3285.31	-23.74	3285.39	0.00	507953.61	720738.46	
13000.00	90.00	359.59	9922.00	3385.31	-24.46	3385.39	0.00	508053.61	720737.74	
13100.00	90.00	359.59	9922.00	3485.30	-25.18	3485.39	0.00	508153.60	720737.02	
13200.00	90.00	359.59	9922.00	3585.30	-25.90	3585.39	0.00	508253.60	720736.30	
13300.00	90.00	359.59	9922.00	3685.30	-26.63	3685.39	0.00	508353.60	720735.57	
13400.00	90.00	359.59	9922.00	3785.30	-27.35	3785.39	0.00	508453.60	720734.85	
13500.00	90.00	359.59	9922.00	3885.29	-28.07	3885.39	0.00	508553.59	720734.13	
13600.00	90.00	359.59	9922.00	3985.29	-28.79	3985.39	0.00	508653.59	720733.41	
13700.00	90.00	359.59	9922.00	4085.29	-29.52	4085.39	0.00	508753.59	720732.68	
13800.00	90.00	359.59	9922.00	4185.29	-30.24	4185.39	0.00	508853.59	720731.96	
13900.00	90.00	359.59	9922.00	4285.28	-30.96	4285.39	0.00	508953.58	720731.24	
14000.00	90.00	359.59	9922.00	4385.28	-31.68	4385.39	0.00	509053.58	720730.52	
14100.00	90.00	359.59	9922.00	4485.28	-32.41	4485.39	0.00	509153.58	720729.79	
14200.00	90.00	359.59	9922.00	4585.27	-33.13	4585.39	0.00	509253.57	720729.07	
14223.83	90.00	359.59	9922.00	4609.10	-33.30	4609.22	0.00	509277.40	720728.90	PBHL

Targets

Name	Description Dip.	Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	← Latitude →			← Longitude →				
								Deg	Min	Sec	Dir	Min	Sec		
PBHL			9922.00	4609.10	-33.30	509277.40	720728.90	32	23	53.120	N	103	37	5.496	W

Casing Points

MD ft	TVD ft	Diameter in	Hole Size in	Name
1000.00	1000.00	0.000	0.000	Csg
4965.00	4965.00	0.000	0.000	Csg



Weatherford International Ltd.
WFT Plan Report - X & Y's



Company: Occidental Permian Ltd.	Date: 8/9/2012	Time: 11:38:28	Page: 3
Field: Lea Co, New Mexico (Nad 27)	Co-ordinate(NE) Reference:	Well: NBR 18 State #3H, Grid North	
Site: NBR 18 State #3H	Vertical (TVD) Reference:	SITE 3702.1	
Well: NBR 18 State #3H	Section (VS) Reference:	Well (0.00N,0.00E,359.59Azi)	
Wellpath: 1	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Annotation

MD ft	TVD ft	
9205.80	9205.80	KOP
10330.80	9922.00	LP/HEEL
14223.82	9922.00	PBHL/TOE

Formations

MD ft	TVD ft	Formations	Lithology	Dip Angle deg	Dip Direction deg
1392.00	1392.00	Base Salt		0.00	0.00
4865.00	4865.00	Base Anhydrite		0.00	0.00
4983.00	4983.00	Bell Canyon		0.00	0.00
5134.00	5134.00	Cherry Canyon		0.00	0.00
7105.00	7105.00	Brushy Canyon		0.00	0.00
8743.00	8743.00	Bone Spring		0.00	0.00
	0.00	2nd Bone Spring		0.00	0.00

**Weatherford****Weatherford Drilling Services**

GeoDec v5.03

Report Date: March 26, 2012
 Job Number: _____
 Customer: Occidental Permian Ltd.
 Well Name: NBR 18 State #3H
 API Number: _____
 Rig Name: _____
 Location: Lea Co, New Mexico (Nad 27)
 Block: _____
 Engineer: Patrick Rudolph

US State Plane 1927	Geodetic Latitude / Longitude
System: New Mexico East 3001 (NON-EXACT)	System: Latitude / Longitude
Projection: SPC27 Transverse Mercator	Projection: Geodetic Latitude and Longitude
Datum: NAD 1927 (NADCON CONUS)	Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866	Ellipsoid: Clarke 1866
North/South 504668.300 USFT	Latitude 32.3854192 DEG
East/West 720762.200 USFT	Longitude -103.6181853 DEG
Grid Convergence: .38°	
Total Correction: +7.08°	

Geodetic Location WGS84	Elevation =	0.0 Meters
Latitude = 32.38542° N	32° 23 min	7.509 sec
Longitude = 103.61819° W	103° 37 min	5.467 sec

Magnetic Declination =	7.46°	[True North Offset]	
Local Gravity =	.9988 g	Checksum =	6496
Local Field Strength =	48600 nT	Magnetic Vector X =	23878 nT
Magnetic Dip =	60.30°	Magnetic Vector Y =	3127 nT
Magnetic Model =	IGRF-2010g11	Magnetic Vector Z =	42214 nT
Spud Date =	Oct 01, 2012	Magnetic Vector H =	24082 nT

Signed: _____

Date: _____