

Submit 1 Copy To Appropriate District Office
District I - (575) 393-6161
1625 N. French Dr., Hobbs, NM 88248
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

HOBBS OGD

JUN 11 2012

RECEIVED

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

Form C-103
Revised August 1, 2011

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-101) FOR SUCH PROPOSALS.)		WELL API NO. 30-041-00050
1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐		5. Indicate Type of Lease STATE ☐ FEE ☒
2. Name of Operator EOR Operating Company		6. State Oil & Gas Lease No.
3. Address of Operator 200 N. Loraine, STE 1440 Midland, TX 79701		7. Lease Name or Unit Agreement Name Milnesand Unit
4. Well Location Unit Letter M 660 feet from the W line and 660 feet from the S line Section 12 Township 08S Range 34E NMPM County Roosevelt		8. Well Number 141
11. Elevation (Show whether DR, RKB, RT, GR, etc.)		9. OGRID Number 257420
		10. Pool name or Wildcat 46930-Milnesand-San Andres

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☐	COMMENCE DRILLING OPNS ☐	P AND A ☐
PULL OR ALTER CASING ☐	MULTIPLE COMPL ☐	CASING/CEMENT JOB ☐	
DOWNHOLE COMMINGLE ☐			
OTHER: Recomplete Horizontally ☒		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.			

The MSU #141 is currently producing from the San Andres perforations located @ 4546'-4566' & 4591'-4611'. Current PBTD is 4661'. EOR proposes to perform the attached operation in order to recomplete this well horizontally in the San Andres.

Per ACD-277
Expires
Nov 30, 2012

APPROVED BY BLM
08/18/2011

Spud Date		Rig Release Date	
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I hereby certify that the information above is true and complete to the best of my knowledge and belief

SIGNATURE Jana True TITLE Regulatory Mgr DATE 6/6/12

Type or print name Jana True E-mail address: jtrue@enhancedoiles.com PHONE 432-687-0303

For State Use Only

APPROVED BY: [Signature] TITLE PETROLEUM ENGINEER DATE JUN 21 2012
Conditions of Approval (if any):

JUN 21 2012



Milnesand Unit Well #141
Proposed Horizontal Drilling Program
API # 30-041-00050
660 FSL 600 FWL
M-12-08S-34E
Roosevelt Co, NM

Proposed Procedure

1. NU 3k BOPE and POH with rods and tubing.
2. RUWL and RIH with 5 ½" CIBP. Correlate depth, and set CIBP at KOP of 4232". POH and RDWL.
3. PU 4 3/4" bit and 5 ½" scraper on tubing RIH and tag CIBP and test with weight. POH and LD bit and scraper.
4. Run 5 ½" whipstock on tubing to CIBP. Orient whipstock with gyro and set bottom trip anchor on CIBP, POH.
5. PU milling BHA, tag whipstock, and mill window in 5 ½" casing and 8' of new hole. POH with mill assembly.
6. PU drilling BHA and commence drilling with a 20°/100' build rate as per the attached directional plan and survey.
7. At TD, run 3 ½" 9.3# L80 FJ liner and set from TD to vertical section of 5 ½" casing. Liner will have packers (PEAK or equivalent) with frac ports and will not be cemented. Number of ports and packers run will be dictated by length and number of shows and porous interval drilled.
8. Fracture treat through ports separated by packers.

Mud Program

This lateral will be drilled with a closed loop mud system. After milling out the casing window with clear fresh water, the directional interval will be drilled with a polymer based fresh water system using the following parameters:

Hole Size (Inches)	Depth MD/TVD (ft)	Mud Density (ppg)	Viscosity (sec/1000cc)	Plastic Viscosity (cP)	Yield Point (lb/100ft^2)	API Fluid Loss (ml)	pH	LGS%
4.75	KOP-TD	8.4-8.7	34-36	4-10	4-12	10-12	9.5-10.0	<6

HOBBS OCD

JUN 11 2012

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Weatherford

Drilling Services

Proposal

EOR OPERATING

MILNESAND UNIT 141

ROOSEVELT CO, NM

WELL FILE: **PLAN 1**

MAY 25, 2011

Weatherford International, Ltd.

P O Box 61028

Midland, TX 79711 USA

+1.432.561 8892 Main

+1 432.561 8895 Fax

www.weatherford.com

EOR Operating

Milnesand Unit 141
Roosevelt Co, NM

SECTION DETAILS

Sec	MD	Inc	Azi	TVB	+N/S	+E/W	DLeg	IFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	4232.43	0.00	0.00	4232.43	0.00	0.00	0.00	0.00	0.00	
3	4247.43	3.00	45.00	4247.42	0.28	0.28	20.00	45.00	0.19	
4	4252.43	3.00	45.00	4252.41	0.36	0.36	0.00	0.00	0.65	
5	4661.53	84.82	45.00	4522.73	184.47	184.47	20.00	0.00	260.47	
6	5805.32	84.82	45.00	4626.00	989.95	989.95	0.00	0.00	1400.00	PBHL

WELL DETAILS

Name	+N/S	+E/W	Northing	Easting	Latitude	Longitude	Stat
MSU 141	0.00	0.00	958028.80	776877.37	33°37'48.825N	103°25'75.392W	N/A

TARGET DETAILS

Name	TVB	+N/S	+E/W	Northing	Easting	Shape
PBHL	4626.00	989.95	989.95	959027.42	777858.57	Point

FIELD DETAILS

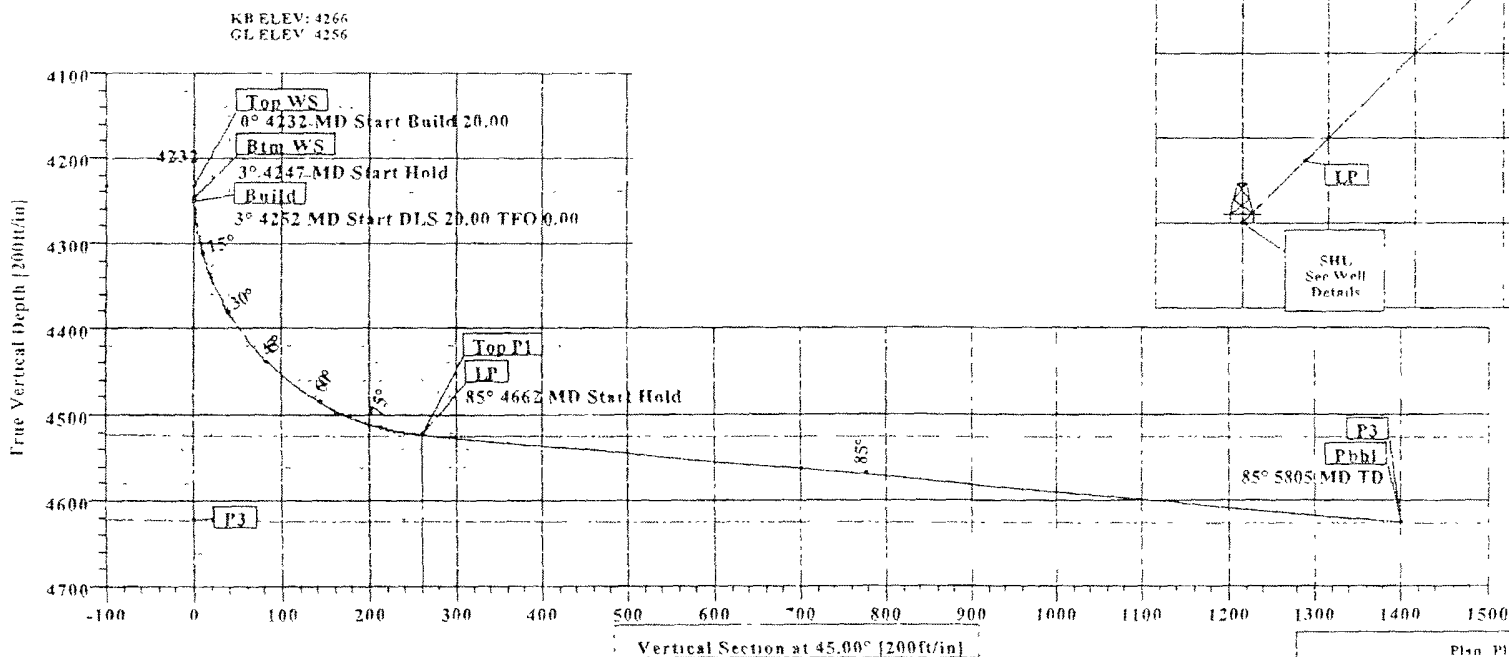
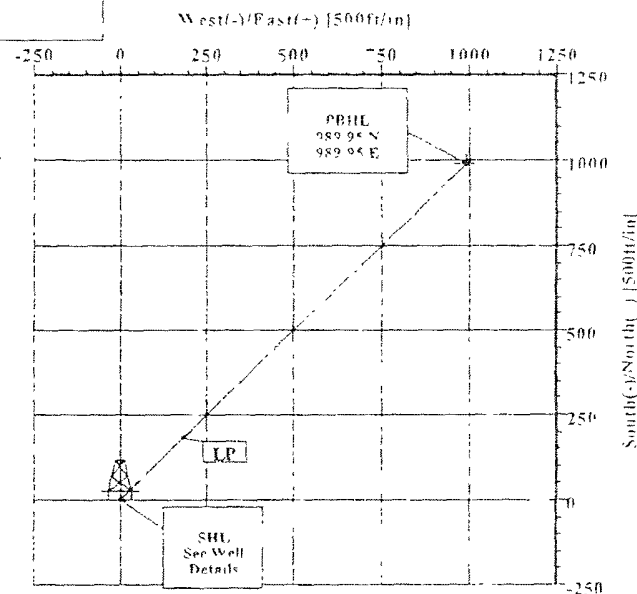
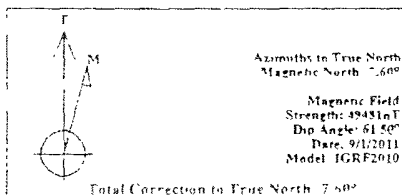
Roosevelt Co, NM (Nad 27)
Geodetic System: US State Plane Coordinate System 1927
Elevation: NAD27 (Clarke 1866)
Zone: New Mexico Eastern Zone
Magnetic Model: IGRF2010
System Datum: Mean Sea Level
Local North: True North

SITE DETAILS

Milnesand Unit 141
Site Centre Latitude: 33°37'48.825N
Longitude: 103°25'75.392W
Ground Level: 4256.00
Positional Uncertainty: 0.00
Convergence: 0.50

FORMATION TOP DETAILS

No.	TVBPath	MDPath	Formation
1	4522.73	4661.53	Top P1
2	4625.91	5804.29	P3



Plan: Plan #1 (MSU 141/J)
Created By: Russell W. Joyner Date: 5/25/2011

Weatherford International Ltd.

WFT Plan Report Lat, Long



Weatherford

Company: EOR Operating		Date: 5/25/2011		Time: 14:30:14		Page: 1						
Field: Roosevelt Co. NM (Nad 27)		Co-ordinate(NF) Reference:		Well: MSU 141, True North								
Site: Milnesand Unit 141		Vertical (TVD) Reference:		SITE 4266.0								
Well: MSU 141		Section (VS) Reference:		Well (0 00N,0 00E 45 00Az)								
Wellpath: 1		Survey Calculation Method:		Minimum Curvature		Dh: Sybase						
Plan: Plan #1		Date Composed:		5/25/2011								
Principal: Yes		Version:		1								
		Tied-to:		From Surface								
Field: Roosevelt 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: Milnesand Unit 141												
Site Position		Northing: 958026.80 ft		Latitude: 33 37 48.828 N								
From: Geographic		Easting: 776877.37 ft		Longitude: 103 25 25.392 W								
Position Uncertainty: 0.00 ft				North Reference: True								
Ground Level: 4256.00 ft				Grid Convergence: 0.50 deg								
Well: MSU 141												
Slot Name:												
Well Position:		Northing: 958026.80 ft		Latitude: 33 37 48.828 N								
+N/S: 0.00 ft		Easting: 776877.37 ft		Longitude: 103 25 25.392 W								
+E/W: 0.00 ft												
Position Uncertainty: 0.00 ft												
Wellpath: 1												
Current Datum: SITE		Height: 4266.00 ft		Drilled From: Surface								
Magnetic Data: 9/1/2011				Tie-on Depth: 0.00 ft								
Field Strength: 49481 nT				Above System Datum: Mean Sea Level								
Vertical Section: Depth From (TVD)		+N/S: ft		Declination: 7.60 deg								
ft		ft		Mag Dip Angle: 61.50 deg								
0.00		0.00		Direction: deg								
				0.00		45.00						
Plan Section Information												
MD ft	Incl deg	Azim 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
4232.43	0.00	0.00	4232.43	0.00	0.00	0.00	0.00	0.00	0.00			
4247.43	3.00	45.00	4247.42	0.28	0.28	20.00	20.00	0.00	45.00			
4252.43	3.00	45.00	4252.41	0.46	0.46	0.00	0.00	0.00	0.00			
4661.53	84.82	45.00	4522.73	184.47	184.47	20.00	20.00	0.00	0.00			
5806.32	84.82	45.00	4626.00	989.95	989.95	0.00	0.00	0.00	0.00	Pbhl		
Survey												
MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	Lat Min	Sec	Long Min	Sec	Comment
4200.00	0.00	0.00	4200.00	0.00	0.00	0.00	0.00	33	37	48.828	103	25 25.392
4232.43	0.00	0.00	4232.43	0.00	0.00	0.00	0.00	33	37	48.828	103	25 25.392 Top WS
4247.43	3.00	45.00	4247.42	0.28	0.28	0.39	20.00	33	37	48.831	103	25 25.389 Btm WS
4252.43	3.00	45.00	4252.41	0.46	0.46	0.65	0.00	33	37	48.833	103	25 25.387 Build
4300.00	12.51	45.00	4299.50	5.00	5.00	7.07	20.00	33	37	48.877	103	25 25.333
4400.00	32.51	45.00	4391.41	31.94	31.94	45.17	20.00	33	37	49.144	103	25 25.014
4500.00	52.51	45.00	4464.74	79.48	79.48	112.40	20.00	33	37	49.614	103	25 24.452
4600.00	72.51	45.00	4510.66	141.89	141.89	200.66	20.00	33	37	50.232	103	25 23.714
4661.53	84.82	45.00	4522.73	184.47	184.47	260.87	20.00	33	37	50.653	103	25 23.210 Top PI
4700.00	84.82	45.00	4526.20	211.56	211.56	299.19	0.00	33	37	50.921	103	25 22.890
4800.00	84.82	45.00	4535.23	281.98	281.98	398.78	0.00	33	37	51.616	103	25 22.057
4900.00	84.82	45.00	4544.26	352.40	352.40	498.38	0.00	33	37	52.314	103	25 21.224
5000.00	84.82	45.00	4553.29	422.83	422.83	597.97	0.00	33	37	53.011	103	25 20.392
5100.00	84.82	45.00	4562.32	493.25	493.25	697.56	0.00	33	37	53.708	103	25 19.559
5200.00	84.82	45.00	4571.35	563.67	563.67	797.15	0.00	33	37	54.404	103	25 18.726

Weatherford International Ltd.

WFT Plan Report Lat, Long



Weatherford

Company	EOR Operating	Date	5/25/2011	Time	14:30:14	Page	2
Field	Roosevelt Co. NM (Nad 27)	Co-ordinate(N/E) Reference	Well: MSU 141 True North				
Suc	Minesand Unit 141	Vertical (I/V D) Reference	SITE 4266 0				
Well	MSU 141	Section (V/S) Reference	Well (0 00N,0 00E,45 00Azi)				
Wellpath	1	Survey Calculation Method	Minimum Curvature	Db	Sybase		

Survey

MD ft	Incl deg	Azimuth deg	I/V D ft	N/S ft	E/W ft	V/S ft	DLS deg/100ft	Lat Min	Sec	Long Min	Sec	Comments
5300.00	84.82	45.00	4580.38	634.09	634.09	896.74	0.00	33	37	55 101	103	25 17 893
5400.00	84.82	45.00	4589.40	704.51	704.51	996.33	0.00	33	37	55 798	103	25 17 060
5500.00	84.82	45.00	4598.43	774.94	774.94	1095.92	0.00	33	37	56 495	103	25 16 227
5600.00	84.82	45.00	4607.46	845.36	845.36	1195.52	0.00	33	37	57 191	103	25 15 394
5700.00	84.82	45.00	4616.49	915.78	915.78	1295.11	0.00	33	37	57 888	103	25 14 562
5800.00	84.82	45.00	4625.52	986.20	986.20	1394.70	0.00	33	37	58 585	103	25 13 729
5804.29	84.82	45.00	4625.91	989.22	989.22	1398.97	0.00	33	37	58 614	103	25 13 693 P3
5805.32	84.82	45.00	4626.00	989.95	989.95	1400.00	0.00	33	37	58 622	103	25 13 684 Pbhl

Targets

Name	Description Dip Du	I/V D ft	+N/S ft	+E/W ft	Map Northing ft	Map Lasting ft	Latitude Deg Min Sec	Longitude Deg Min Sec
Pbhl		4626.00	989.95	989.95	959027.42	777858.57	33 37 58.622 N	103 25 13.684 W
-Plan hit target								

Casing Points

MD	I/V D	Diameter	Hole Size	Name

Formations

MD ft	I/V D ft	Formations	Lithology	Dip Angle deg	Dip Direction deg
4661.53	4522.73	Top P1		0 16	45 00
5804.29	4625.91	P3		0 16	45 00

Annotation

MD ft	I/V D ft	
4232.43	4232.43	Top WS
4247.43	4247.42	Btm WS
4252.43	4252.42	Build
4661.53	4522.73	LP
5805.32	4626.00	Pbhl

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

GeoDec v5.03

Report Date:	May 24, 2011
Job Number:	-----
Customer:	EOG Operating
Well Name:	Hinesand Unit MSU 141
API Number:	-----
Rig Name:	-----
Location:	Roosevelt Co, NM
Block:	-----
Engineer:	RWJ

Geodetic Latitude / Longitude	Geodetic Latitude / Longitude
System: Latitude / Longitude	System: Latitude / Longitude
Projection: Geodetic Latitude and Longitude	Projection: Geodetic Latitude and Longitude
Datum: NAD 1927 (NADCON CONUS)	Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866	Ellipsoid: Clarke 1866
Latitude: 33.6302300 DEG	Latitude: 33.6302300 DEG
Longitude: -103.4237200 DEG	Longitude: -103.4237200 DEG

Geodetic Location WGS84	Elevation =	0.0 Meters
Latitude =	33.63023° N	33° 37 min 48.828 sec
Longitude =	103.42372° W	103° 25 min 25.392 sec

Magnetic Declination =	7.60°	[True North Offset]
Local Gravity =	9.7989 g	Checksum = 6572
Local Field Strength =	49477 nT	Magnetic Vector X = 23404 nT
Magnetic Dip =	61.50°	Magnetic Vector Y = 3121 nT
Magnetic Model =	IGRF-2010g11	Magnetic Vector Z = 43480 nT
Spud Date =	Sep 01, 2011	Magnetic Vector H = 23611 nT

Signed _____

Date: _____

MILNESAND UNIT 141 PJ SVY

Weatherford International Ltd.
WFI Plan Report lat, long

Company: EOR Operating
Time: 14:30:57 Page: 1
Field: Roosevelt Co, NM (Nad 27)
Reference: well: MSU 141, True North
Site: Milnesand Unit 141
Reference: SITE 4266 0
Well: MSU 141
Reference: well (0.00N,0.00E,45.00Azi)
Wellpath: 1
Method: Minimum Curvature Db: Sybase

Date: 5/25/2011
Co-ordinate(NE)
Vertical (TVD)
Section (VS)
Survey Calculation

Plan: Plan #1
5/25/2011

Date Composed:

1
Principal: Yes
From Surface

Version:

Tied-to:

Field: Roosevelt Co, NM (Nad 27)

Map System:US State Plane Coordinate System 1927
New Mexico, Eastern Zone
Geo Datum: NAD27 (Clarke 1866)
Well Centre
Sys Datum: Mean Sea Level
IGRR2010

Map Zone:
Coordinate System:
Geomagnetic Model:

Site: Milnesand Unit 141

Site Position:
33 37 48.828 N
From: Geographic
103 25 25.392 W
Position Uncertainty: 0.00 ft
True
Ground Level: 4256.00 ft
0.50 deg

Northing: 958028.80 ft Latitude:
Easting: 776877.37 ft Longitude:
North Reference:
Grid Convergence:

Well: MSU 141

Slot Name:

Well Position: +/-S 0.00 ft
33 37 48.828 N
+E/-W 0.00 ft
103 25 25.392 W
Position Uncertainty: 0.00 ft

Northing: 958028.80 ft Latitude:
Easting : 776877.37 ft Longitude:

Wellpath: 1
Surface

Drilled From:

Tie-on Depth:

0.00 ft
Current Datum: SITE
Datum: Mean Sea Level
Magnetic Data: 9/1/2011

Height 4266.00 ft Above System
Declination:

MIJNESAND UNIT 141 P1 SVY

7.60 deg
field Strength: 49481 nT Mag Dip Angle:

61.50 deg
vertical Section: Depth from (TVD) IN/-S +E/-W
Direction ft ft ft

deg
0.00 0.00 0.00
45.00

Plan Section Information							
MD	Incl	Azim	TVD	IN/-S	+E/-W	DLS	Build
Turn	ft	deg	ft	ft	ft		
deg/100ft	deg/100ft	deg/100ft	deg				
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00						
4232.43	0.00	0.00	4232.43	0.00	0.00	0.00	0.00
0.00	0.00						
4247.43	3.00	45.00	4247.42	0.28	0.28	20.00	20.00
0.00	45.00						
4252.43	3.00	45.00	4252.41	0.46	0.46	0.00	0.00
0.00	0.00						
4661.53	84.82	45.00	4522.73	184.47	184.47	20.00	20.00
0.00	0.00						
5805.32	84.82	45.00	4626.00	989.95	989.95	0.00	0.00
0.00	0.00	Pbhl					
Survey							

Min	MD	Incl	Azim	TVD	N/S	E/W	VS	DLS	Lat
	Sec	Long	Min	ft	Comment	ft	ft	deg/100ft	
	ft	deg	deg						
	4200.00	0.00	0.00	4200.00	0.00	0.00	0.00	0.00	33
37	48.828	103	25 25.392						
	4232.43	0.00	0.00	4232.43	0.00	0.00	0.00	0.00	33
37	48.828	103	25 25.392	Top ws					
	4247.43	3.00	45.00	4247.42	0.28	0.28	0.39	20.00	33
37	48.831	103	25 25.389	Btm ws					
	4252.43	3.00	45.00	4252.41	0.46	0.46	0.65	0.00	33
37	48.833	103	25 25.387	Build					
	4300.00	12.51	45.00	4299.50	5.00	5.00	7.07	20.00	33
37	48.877	103	25 25.333						
	4400.00	32.51	45.00	4391.41	31.94	31.94	45.17	20.00	33
37	49.144	103	25 25.014						
	4500.00	52.51	45.00	4464.74	79.48	79.48	112.40	20.00	33
37	49.614	103	25 24.452						
	4600.00	72.51	45.00	4510.66	141.89	141.89	200.66	20.00	33
37	50.232	103	25 23.714						
	4661.53	84.82	45.00	4522.73	184.47	184.47	260.87	20.00	33
37	50.653	103	25 23.210	Top P1					
	4700.00	84.82	45.00	4526.20	211.56	211.56	299.19	0.00	33
37	50.921	103	25 22.890						
	4800.00	84.82	45.00	4535.23	281.98	281.98	398.78	0.00	33
37	51.618	103	25 22.057						
	4900.00	84.82	45.00	4544.26	352.40	352.40	498.38	0.00	33
37	52.314	103	25 21.224						
	5000.00	84.82	45.00	4553.29	422.83	422.83	597.97	0.00	33
37	53.011	103	25 20.392						
	5100.00	84.82	45.00	4562.32	493.25	493.25	697.56	0.00	33

37	53.708	103	25	19.559						
	5200.00	84.82	45.00	4571.35	563.67	563.67	797.15	0.00	33	
37	54.404	103	25	18.726						
	5300.00	84.82	45.00	4580.38	634.09	634.09	896.74	0.00	33	
37	55.101	103	25	17.893						
	5400.00	84.82	45.00	4589.40	704.51	704.51	996.33	0.00	33	
37	55.798	103	25	17.060						
	5500.00	84.82	45.00	4598.43	774.94	774.94	1095.97	0.00	33	
37	56.495	103	25	16.227						
	5600.00	84.82	45.00	4607.46	845.36	845.36	1195.52	0.00	33	
37	57.191	103	25	15.394						
	5700.00	84.82	45.00	4616.49	915.78	915.78	1295.11	0.00	33	
37	57.888	103	25	14.562						
	5800.00	84.82	45.00	4625.52	986.20	986.20	1394.70	0.00	33	
37	58.585	103	25	13.729						
	5804.29	84.82	45.00	4625.91	989.22	989.22	1398.97	0.00	33	
37	58.614	103	25	13.693	P3					
	5805.32	84.82	45.00	4626.00	989.95	989.95	1400.00	0.00	33	
37	58.622	103	25	13.684	Pbhl					

Map										Map
Name		Latitude		Longitude		TVD		+N/-S	+E/-W	Northing
Easting	Deg	Min	Sec	Dip.	Deg	Min	Sec	ft	ft	ft
ft										ft
Pbhl										4626.00
777858.57	33	37	58.622 N		103	25	13.684 W	989.95	989.95	959027.42
-Plan hit target										

MD	TVD	Diameter	Hole Size	Name
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MD	TVD	Formations	Lithology
ft	Dip Angle ft	Dip Direction	
	deg	deg	
4661.53	4522.73	Top P1	
	0.16		45.00
5804.29	4625.91	P3	
	0.16		45.00

MD ft	TVD ft	
4232.43	4232.43	Top WS
4247.43	4247.42	Btm WS
4252.43	4252.42	Build
4661.53	4522.73	LP
5805.32	4626.00	pbhl

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