

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

HOBBS OCD

SEP 20 2011

RECEIVED

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-101
June 16, 2008

Submit to appropriate District Office

☐ AMENDED REPORT

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

Operator Name and Address OXY USA Inc. P.O. Box 50250 Midland, TX 79710		OGRID Number 16696
Property Code 305119		API Number 30-025-11386
Property Name Hodges B		Well No 5
Proposed Pool 1 Justis Devonian, North 34280		Proposed Pool 2

Surface Location

UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	1	25S	37E		1642	South	1660	West	Lea

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/West line	County
L	1	25S	37E		2260	South	1033	West	Lea

Additional Well Information

Work Type Code Sidetrack	Well Type Code O	Cable/Rotary R	Lease Type Code P	Ground Level Elevation 3112' GL
Multiple N	Proposed Depth 7958' M 7800' V	Formation Devonian	Contractor N/A	Spud Date 4/14

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#	498'	540	Surf - Circ
12 1/4"	9 5/8"	36#	3405'	3400	Surf - Circ
8 3/4"	7"	26#	7250'	910	2950' - CBL
6 1/8"	4 1/2"	11.6#	7958'	650	Surface

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.

See Attached

* See Amended Plat (C-102)

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

Signature:

David Stewart

Printed name:

David Stewart

Title:

Regulatory Analyst

E-mail Address:

david_stewart@oxy.com

Date:

9/19/11

Phone:

432-685-5717

OIL CONSERVATION DIVISION

Approved by:

[Signature]

Title:

REGULATORY ANALYST

Approval Date:

SEP 26 2011

Expiration Date:

Conditions of Approval Attached ☐

SEP 26 2011

Hodges B #5
API No. 30-025-11386

1. Check location for hazardous conditions. MIRU PU. Ensure the well is dead. NU BOP.
2. NU BOP. RIH with bit & drill out cement & CR @ 3750' & cmt plug @ 4750-4850'5075-5100'.
3. RIH, clean out and set whipstock at approximately 5100'.
4. RIH with bit and mill out a window in the casing.
5. Drill sidetrack to 7958' MD 7800' VD according to attached directional drilling plan. Drill slowly upon entering the Devonian formation (~7225')
6. POOH with bit and drill pipe.
7. RIH w/ 4-1/2" 11.6 # casing from surface to 7958', DV Tool @ +/- 5000'. Cement 1st stage 310sx Super H w/ .5% Halad-344 + .4% CFR-3 + 5#/sx Gilsonite + 1#/sx salt + .1% HR-601 + .125#/sx Poly-E-Flake, 13.2ppg 1.62 yield 1536# 24hr CS, Calc TOC-4995'. Cement 2nd stage w/ 240sx Interfill C, 11.9ppg 2.47 yield 390# 24hr followed by 100sx PP cmt, 14.8ppg 1.33 yield 1750# 24hr CS, Calc TOC-Surface. Rig Down.
8. RU Wireline and run a CBL and Gamma Ray Log from 7958' to surface. Perfs will be confirmed using these logs.
9. Perforate 7186'-7199' and 7147'-7172' with 6 SPF at 60 degree phasing.
10. Gentle acid wash with 7.5% HCL to clean perfs only. SI well for an hour. Flow well back.
11. RIH with lift equipment and place well on production and report results to engineer.
12. RDPU.



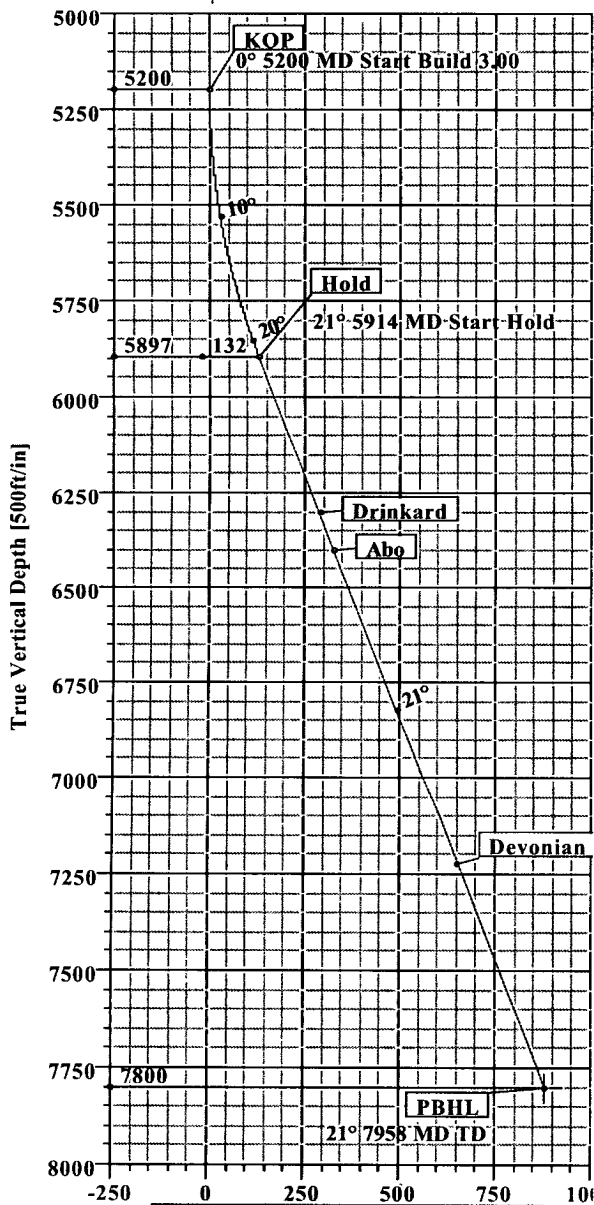
**Occidental Permian Ltd.
Hodges B #5 Re Entry
Lea Co., NM**

FORMATION TOP DETAILS

No.	TVDPath	MDPath	Formation
1	6300.00	6346.38	Drinkard
2	6400.00	6453.80	Abo
3	7225.00	7340.01	Devonian



KB ELEV: 3139
GL ELEV: 3115



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	314.09	0.00	0.00	0.00	0.00	0.00	0.00	
2	5200.00	0.00	314.09	5200.00	0.00	0.00	0.00	0.00	0.00	
3	5914.00	21.42	314.09	5897.48	91.79	-94.75	3.00	314.09	131.92	
4	7957.67	21.42	314.09	7800.00	611.10	-630.80	0.00	0.00	878.27	PBHL

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PBHL	7800.00	611.10	-630.80	423370.00	875081.00	Circle (Radius: 50)

WELL DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
Hodges B #5 Re Entry	0.00	0.00	422758.90	875711.80	32°09'23.244N	103°07'09.526W	N/A

SITE DETAILS

Hodges B #5 Re Entry
Site Centre Northing: 422758.90
Easting: 875711.80
Ground Level: 3115.00
Positional Uncertainty: 0.00
Convergence: 0.65

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



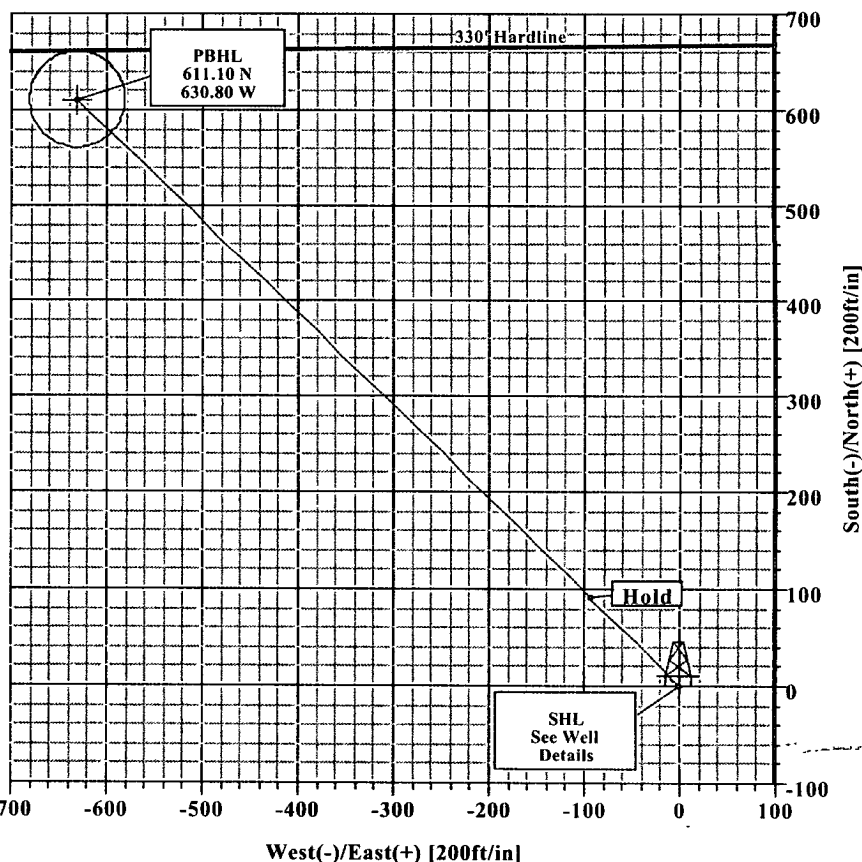
Weatherford



Azimuths to Grid North
True North: -0.65°
Magnetic North: 6.67°

Magnetic Field
Strength: 48604nT
Dip Angle: 60.19°
Date: 12/1/2011
Model: IGRF2010

Total Correction To Grid North 6.67°





Weatherford International Ltd.

WFT Plan Report - X & Y's



Weatherford

Company: Occidental Permian Ltd. Date: 8/5/2011 Time: 16:00:15 Page: 1
 Field: Lea Co, New Mexico (Nad 27) Co-ordinate(NE) Reference: Well: Hodges B #5 Re Entry; Grid North
 Site: Hodges B #5 Re Entry Vertical (TVD) Reference: SITE 3139.0
 Well: Hodges B #5 Re Entry Section (VS) Reference: Well (0.00N,0.00E,314.09Azi)
 Wellpath: 1 Survey Calculation Method: Minimum Curvature Db: Sybase

Plan: Plan #3 Date Composed: 6/22/2011
 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: Hodges B #5 Re Entry

Site Position: Northing: 422758.90 ft Latitude: 32 9 23.244 N
 From: Map Easting: 875711.80 ft Longitude: 103 7 9.526 W
 Position Uncertainty: 0.00 ft North Reference: Grid
 Ground Level: 3115.00 ft Grid Convergence: 0.65 deg

Well: Hodges B #5 Re Entry Slot Name:
 Well Position: +N/-S 0.00 ft Northing: 422758.90 ft Latitude: 32 9 23.244 N
 +E/-W 0.00 ft Easting: 875711.80 ft Longitude: 103 7 9.526 W
 Position Uncertainty: 0.00 ft

Wellpath: 1 Drilled From: Surface
 Current Datum: SITE Height 3139.00 ft Tie-on Depth: 0.00 ft
 Magnetic Data: 12/1/2011 Above System Datum: Mean Sea Level
 Field Strength: 48604 nT Declination: 7.31 deg
 Vertical Section: Depth From (TVD) +N/-S Mag Dip Angle: 60.19 deg
 ft ft +E/-W Direction
 ft ft deg
 0.00 0.00 0.00 314.09

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	314.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5200.00	0.00	314.09	5200.00	0.00	0.00	0.00	0.00	0.00	0.00	
5914.00	21.42	314.09	5897.48	91.79	-94.75	3.00	3.00	0.00	314.09	
7957.67	21.42	314.09	7800.00	611.10	-630.80	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	MapN ft	MapE ft	Comment
5200.00	0.00	314.09	5200.00	0.00	0.00	0.00	0.00	422758.90	875711.80	KOP
5300.00	3.00	314.09	5299.95	1.82	-1.88	2.62	3.00	422760.72	875709.92	
5400.00	6.00	314.09	5399.63	7.28	-7.51	10.46	3.00	422766.18	875704.29	
5500.00	9.00	314.09	5498.77	16.36	-16.89	23.51	3.00	422775.26	875694.91	
5600.00	12.00	314.09	5597.08	29.04	-29.98	41.74	3.00	422787.94	875681.82	
5700.00	15.00	314.09	5694.31	45.28	-46.74	65.08	3.00	422804.18	875665.06	
5800.00	18.00	314.09	5790.18	65.04	-67.14	93.48	3.00	422823.94	875644.66	
5900.00	21.00	314.09	5884.43	88.26	-91.11	126.85	3.00	422847.16	875620.69	
5914.00	21.42	314.09	5897.48	91.79	-94.75	131.92	3.00	422850.69	875617.05	Hold
6000.00	21.42	314.09	5977.54	113.64	-117.30	163.32	0.00	422872.54	875594.50	
6100.00	21.42	314.09	6070.64	139.05	-143.53	199.84	0.00	422897.95	875568.27	
6200.00	21.42	314.09	6163.73	164.46	-169.76	236.36	0.00	422923.36	875542.04	
6300.00	21.42	314.09	6256.82	189.87	-195.99	272.88	0.00	422948.77	875515.81	
6346.38	21.42	314.09	6300.00	201.66	-208.16	289.82	0.00	422960.56	875503.64	Drinkard
6400.00	21.42	314.09	6349.92	215.28	-222.22	309.40	0.00	422974.18	875489.58	
6453.80	21.42	314.09	6400.00	228.96	-236.34	329.05	0.00	422987.86	875475.46	Abo
6500.00	21.42	314.09	6443.01	240.69	-248.45	345.92	0.00	422999.59	875463.35	



Weatherford International Ltd.

WFT Plan Report - X & Y's



Weatherford

Company: Occidental Permian Ltd.
Field: Lea Co, New Mexico (Nad 27)
Site: Hodges B #5 Re Entry
Well: Hodges B #5 Re Entry
Wellpath: 1

Date: 8/5/2011
Co-ordinate(NE) Reference: Well: Hodges B #5 Re Entry, Grid North
Vertical (TVD) Reference: SITE 3139.0
Section (VS) Reference: Well (0.00N,0.00E,314.09Azi)
Survey Calculation Method: Minimum Curvature **Db:** Sybase

Page: 2

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
6600.00	21.42	314.09	6536.10	266.11	-274.68	382.44	0.00	423025.01	875437.12	
6700.00	21.42	314.09	6629.19	291.52	-300.91	418.96	0.00	423050.42	875410.89	
6800.00	21.42	314.09	6722.29	316.93	-327.14	455.48	0.00	423075.83	875384.66	
6900.00	21.42	314.09	6815.38	342.34	-353.37	492.00	0.00	423101.24	875358.43	
7000.00	21.42	314.09	6908.47	367.75	-379.60	528.52	0.00	423126.65	875332.20	
7100.00	21.42	314.09	7001.57	393.16	-405.83	565.04	0.00	423152.06	875305.97	
7200.00	21.42	314.09	7094.66	418.57	-432.06	601.56	0.00	423177.47	875279.74	
7300.00	21.42	314.09	7187.75	443.98	-458.29	638.08	0.00	423202.88	875253.51	
7340.01	21.42	314.09	7225.00	454.15	-468.79	652.70	0.00	423213.05	875243.01	Devonian
7400.00	21.42	314.09	7280.84	469.39	-484.52	674.60	0.00	423228.29	875227.28	
7500.00	21.42	314.09	7373.94	494.80	-510.75	711.12	0.00	423253.70	875201.05	
7600.00	21.42	314.09	7467.03	520.21	-536.98	747.64	0.00	423279.11	875174.82	
7700.00	21.42	314.09	7560.12	545.62	-563.21	784.16	0.00	423304.52	875148.59	
7800.00	21.42	314.09	7653.22	571.03	-589.44	820.68	0.00	423329.93	875122.36	
7900.00	21.42	314.09	7746.31	596.44	-615.67	857.20	0.00	423355.34	875096.13	
7957.67	21.42	314.09	7800.00	611.10	-630.80	878.27	0.00	423370.00	875081.00	PBHL

Targets

Name	Description Dip.	Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	Latitude Deg Min Sec	Longitude Deg Min Sec
PBHL	-Circle (Radius: 50)		7800.00	611.10	-630.80	423370.00	875081.00	32 9 29.361 N	103 7 16.782 W
	-Plan hit target								

Casing Points

MD	TVD	Diameter	Hole Size	Name

Annotation

MD ft	TVD ft	
5200.00	5200.00	KOP
5914.00	5897.48	Hold
7957.67	7800.00	PBHL

Formations

MD ft	TVD ft	Formations	Lithology	Dip Angle deg	Dip Direction deg
6346.38	6300.00	Drinkard		0.00	0.00
6453.80	6400.00	Abo		0.00	0.00
7340.01	7225.00	Devonian		0.00	0.00

OXY USA Inc. - Current
Hodges B #5
API No. 30-025-11386

