

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

5. Lease Serial No.
NMNM62590

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.
FEDERAL 26 13H

9. API Well No.
30-015-41600

10. Field and Pool, or Exploratory
LIVINGSTON RIDGE DELAWARE

11. County or Parish, and State
EDDY COUNTY, NM

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
OXY USA INC.
Contact: DAVID STEWART
E-Mail: david_stewart@oxy.com

3a. Address
P.O. BOX 50250
MIDLAND, TX 79710
3b. Phone No. (include area code)
Ph: 432-685-5717
Fx: 432-685-5742

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 26 T22S R31E NWNE 334 FNL 2378FEL
32.368689 N Lat, 103.747285 W Lon

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input checked="" type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Change to Original APD
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompletable horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletable in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

OXY USA Inc. respectfully requests approval for the following changes to the drilling plan:

1. Extend the BHL 150' past the south hardline to allow for our shoe track and perforating guns, see attached for amended C-102 plat and amended directional drilling plan.

Proposed TD - 12735'M 8299'V

2. Request casing design modification, to drill the well with smaller bit sizes: 14-3/4" surface hole w/ 11-3/4" csg, 10-5/8" intermediate hole w/ 8-5/8" csg and 7-7/8" production hole w/ 5-1/2" csg. Details are below.

a. Surface Casing

**SEE ATTACHED FOR
CONDITIONS OF APPROVAL**

Accepted for record
NMOCDCes
8/11/2014



14. I hereby certify that the foregoing is true and correct.
Electronic Submission #253822 verified by the BLM Well Information System For OXY USA INC., sent to the Carlsbad

Name (Printed/Typed) DAVID STEWART	Title SR. REGULATORY ADVISOR
Signature (Electronic Submission)	Date 07/18/2014

**NM OIL CONSERVATION
ARTESIA DISTRICT**

AUG 11 2014

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

RECEIVED

Approved By _____	Title _____	Date _____
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		Office _____

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

**SEE ATTACHED FOR
CONDITIONS OF APPROVAL**

Additional data for EC transaction #253822 that would not fit on the form

32. Additional remarks, continued

11-3/4" 47# J-55 BT&C new csg @ 0-900', 14-3/4" hole w/ 8.5# mud

Coll Rating (psi)-1510 Burst Rating (psi)-3070
SF Coll-4.24 SF Burst-3.67 SF Ten-5.42

b. Intermediate Casing

8-5/8" 32# J-55 LT&C new csg @ 0-4640', 10-5/8" hole w/ 10.0# mud

Coll Rating (psi)-2530 Burst Rating (psi)-3930
SF Coll-1.66 SF Burst-1.35 SF Ten-1.89

c. Production Casing

5-1/2" 17# L-80 BT&C new csg @ 0-12735'M, 7-7/8" hole w/ 9.2# mud

Coll Rating (psi)-6290 Burst Rating (psi)-7740
SF Coll-1.55 SF Burst-1.25 SF Ten-1.79

Collapse and burst loads calculated using Stress Check with anticipated loads, see attached for design assumptions

2. Cement program adjustment to the new bit/casing sizes. Cement program modifications detailed below.

a. Surface - Circulate cement to surface w/ 340sx PP cmt w/ 4% Bentonite + 1% CaCl₂ + .25#/sx Poly-E-Flake, 13.5ppg 1.73 yield 1013# 24hr CS 125% Excess followed by 240sx PP cmt w/ 2% CaCl₂, 14.8ppg 1.35 yield 1415# 24hr CS 125% excess.

b. Intermediate - Circulate cement to surface w/ 920sx HES light PP cmt w/ 5% Salt + .1% HR-800, 12.9ppg 1.84 yield 824# 24hs CS 125% Excess followed by 200sx PP cmt, 14.8ppg 1.33 yield 1789# 24hr CS 125% Excess.

c. Production - Circulate cement to surface w/ 570sx Tuned Light cmt w/ .125#/sx Poly-E-Flake + .8% HR-601 + 3#/sx Kol-Seal, 9.76ppg 3.46 yield 801# 24hr CS 100% Excess followed by 770sx Super H cmt w/ 3#/sx salt + .3% CFR-3 + .5% Halad-344 + 2#/sx Kol-Seal, 13.2ppg 1.65 yield 1462# 24hr CS 40% Excess.

Description of Cement Additives: Calcium Chloride, Salt (Accelerator); CFR-3 (Dispersant); Bentonite (Light Weight Additive); Kol-Seal, Poly-E-Flake (Lost Circulation Additive); Halad-344 (Low Fluid Loss Control); HR-601, HR-800 (Retarder)

The above cement volumes could be revised pending the caliper measurement.

OXY USA Inc
Federal 26 #13H SUNDRY NOTICE

Oxy, respectfully requests a dispensation from the approved permit as follows:

BOTTOM HOLE LOCATION LOCATED IN WELL PLAT (c102)

GREATEST PROJECTED TD "LATERAL LP": 8721' MD / 8299' TVD
GREATEST PROJECTED TD "LATERAL TOE": 12735' MD/ 8299' TVD

1. REVISED CASING PROGRAM (ALL NEW CASING SIZES)

Surface Casing ran in a 14.75" hole filled with 8.5 ppg mud

Hole Size (in)	Interval (ft)	OD (in)	Wt (ppf)	Grade	Conn	ID (in)	Tension (klb)	Burst (psi)	Collapse (psi)	Burst SF	Coll SF	Ten SF
14.75	900	11.75	47	J55	BTC	11	737	3070	1510	3.67	4.24	5.42

Intermediate Casing ran in a 10.625" hole filled with 10 ppg mud

Hole Size (in)	Interval (ft)	OD (in)	Wt (ppf)	Grade	Conn	ID (in)	Tension (klb)	Burst (psi)	Collapse (psi)	Burst SF	Coll SF	Ten SF
10.625	4450	8.625	32	J55	LTC	7.921*	417	3930	2530	1.35	1.66	1.89

Production Casing ran in a 7.875" hole filled with 9.2 ppg mud

Hole Size (in)	Interval (ft)	OD (in)	Wt (ppf)	Grade	Conn	ID (in)	Tension (klb)	Burst (psi)	Collapse (psi)	Burst SF	Coll SF	Ten SF
7.875	12735	5.500	17	L80	BTC	4.892	397	7740	6290	1.25	1.55	1.79

*SPECIAL DRIFT TO 7.875"

2. REVISED CEMENT PROGRAM:

Surface Interval (125% Excess)

Interval	Amount sx	Ft of Fill	Type	Gal/Sk	PPG	Ft ³ /sk	24 Hr Comp
Lead: 0' - 599'	340	599	Premium Plus Cement, 4% Bentonite (Light weight additive), 1% Calcium Chloride- Flake (Accelerator), 0.25 lbm Poly-E-Flake (Lost circulation additive)	9.11	13.5	1.732	1013
Tail: 599' - 900'	240	301	Premium Plus Cement 2% Calcium Chloride - Flake (Accelerator)	6.39	14.8	1.35	1415

Intermediate Interval (125% Excess)

Interval	Amount sx	Ft of Fill	Type	Gal/Sk	PPG	Ft ³ /sk	24 Hr Comp
Lead: 0' - 3921'	920	3921	Light Premium Plus Cement 5% Salt, 0.5% HR-800 (Retarder)	9.65	12.9	1.84	824
Tail: 3921' - 4450'	200	529	Premium Plus cement	6.34	14.8	1.33	1789

Production Casing

Interval	Amount sx	Ft of Fill	Type	Gal/Sk	PPG	Ft ³ /sk	24 Hr Comp
Lead: 0' - 7560' (100% Excess)	570	7560	Tuned Light (TM) System 3 lbm/sk Kol-Seal (Light weight additive), 0.125 lbm/sk Poly-E-Flake (Lost circulation additive), 0.8%HR-601(Retarder)	16.16	9.76	3.46	801
Tail: 7560' - 12735' (40% Excess)	770	5175	Super H Cement 0.5 % Halad (R) -344 (Low fluid loss control), 0.3 % CFR-3 (dispersant), 3 lbm/sk Salt, 2 lbm/sk Kol-Seal (Lost Circulation additive)	8.45	13.2	1.65	1462

The volumes indicated above may be revised depending on caliper measurement.

3. DIRECTIONAL PLAN - Please see attached

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

District III
1000 Rio Hondo Road, Azusa, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

District IV
1220 S. St. Francis Dr., Santa Fe, NM 87501
Phone: (505) 476-3460 Fax: (505) 476-3463

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

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-41600	Pool Code 39360	Pool Name Livingston Ridge Delaware
Property Code 304B1B	Property Name FEDERAL "26"	Well Number 13H
OGRID No. 16694	Operator Name OXY USA INC.	Elevation 3574.3'

Surface Location

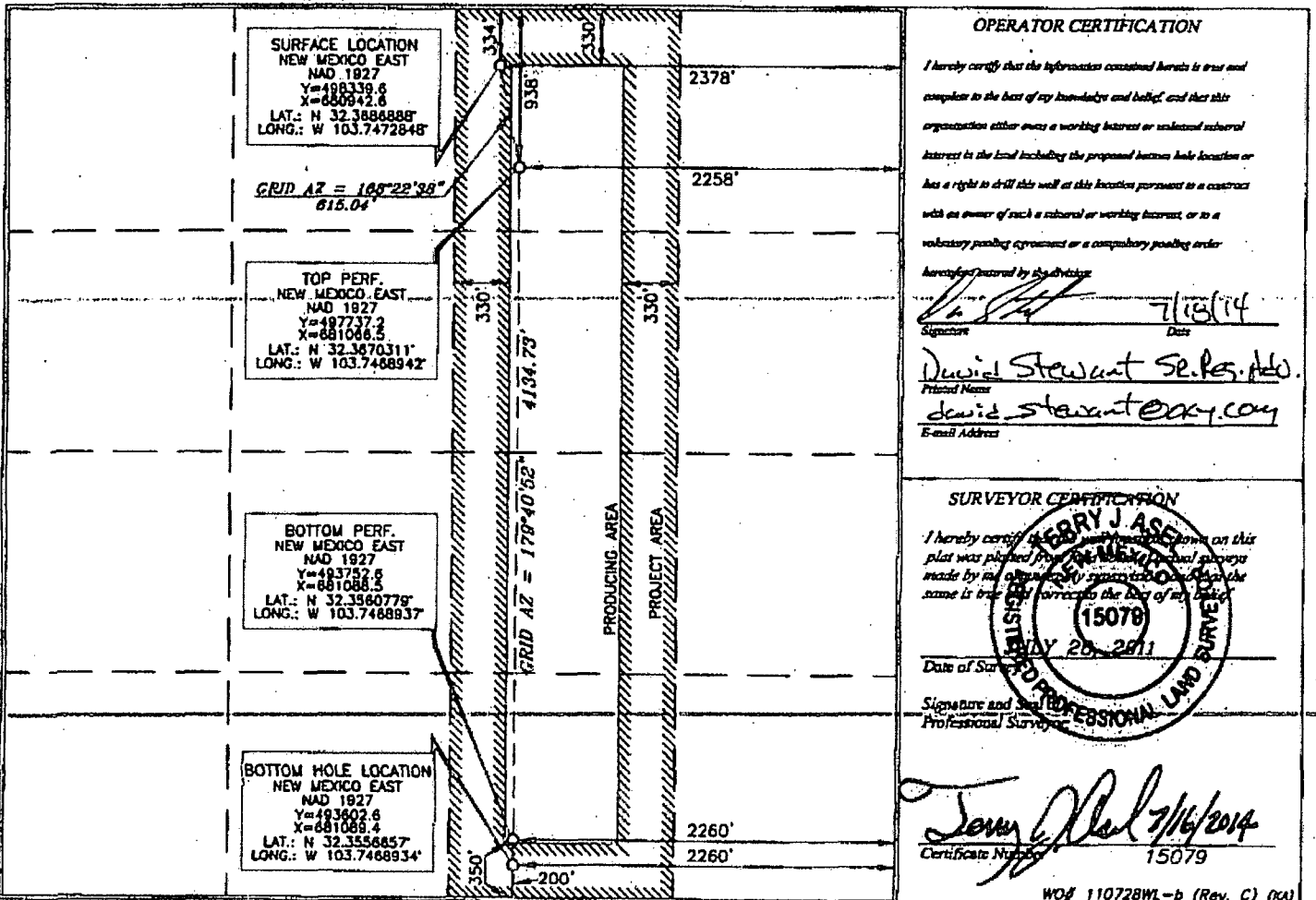
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	26	22 SOUTH	31 EAST, N.M.P.M.		334'	NORTH	2378'	EAST	EDDY

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
0	28	22 SOUTH	31 EAST, N.M.P.M.		200'	SOUTH	2260'	EAST	EDDY

Dedicated Acres 160	Joint or Infill N	Consolidation Code	Order No.
------------------------	----------------------	--------------------	-----------

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 retained 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.

[Signature] 7/15/14
Signature Date
David Stewart Sr. P.E., A.S.P.
Printed Name
david_stewart@oxy.com
E-mail Address

SURVEYOR CERTIFICATION

I hereby certify that the information shown on this plat was plotted from the best available original surveys made by me or under my supervision and that the same is true and correct to the best of my belief.

Date of Survey July 20, 2011
Signature and Seal of Professional Land Surveyor
[Signature]
Professional Land Surveyor

Certificate Number 15079



Federal 26 #13H
Eddy Co, NM

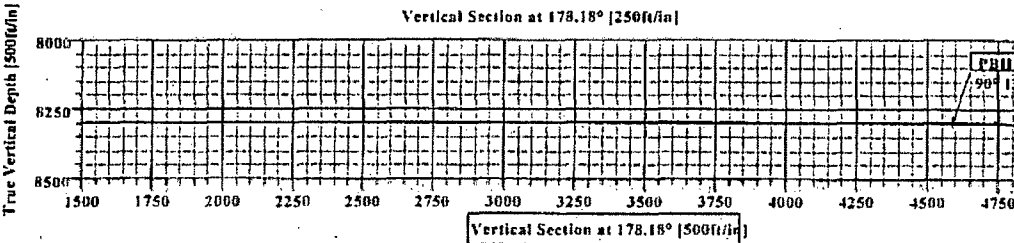
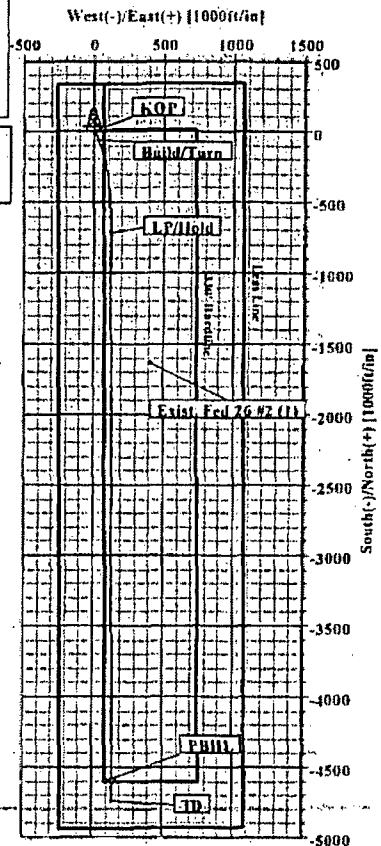
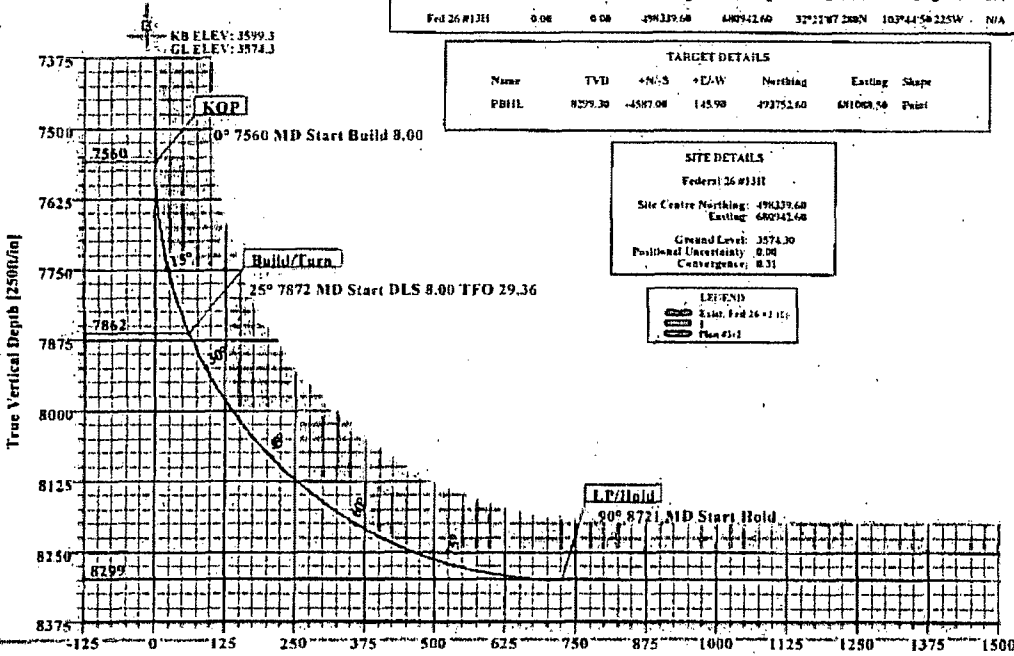
SECTION DETAILS										
Sec	MD	Inc	Act	TVD	+N-S	+E-W	DL%	TFace	VSec	Target
1	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	
2	7559.77	8.00	8.00	7559.77	8.00	8.00	8.00	8.00	8.00	
3	7872.37	25.00	152.78	7842.45	-59.63	30.78	8.00	152.70	64.58	
4	8720.80	90.00	179.71	8299.30	-721.65	126.61	8.00	29.26	725.31	
5	12585.20	90.00	179.71	8279.30	-1587.00	145.90	8.00	0.00	2389.32	PHIL
6	12735.20	90.00	179.71	8194.38	-4737.00	146.65	8.00	8.00	2739.27	

WELL DETAILS							
Name	+N-S	+E-W	Northing	Easting	Latitude	Longitude	Shot
Fed 26 #13H	0.00	0.00	496339.68	680942.60	32°21'47.288"N	103°44'58.225"W	N/A

TARGET DETAILS						
Name	TVD	+N-S	+E-W	Northing	Easting	Shape
PHIL	8279.30	-4587.08	145.90	493752.60	681068.56	Point

SITE DETAILS		
Federal 26 #13H		
Site Centre Northing:	496339.68	
Site Centre Easting:	680942.60	
Ground Level:	3574.30	
Post-hold Uncertainty:	0.04	
Convergence:	0.31	

LEGEND	
	KOP
	Build/Turn
	LP/hold
	PHIL
	TD



Plan: Plan #312 (Fed 26 #13H/1)
Created By: Patrick Rudolph Date: 5/6/2014



Weatherford International Ltd.

WFT Plan Report - X & Y's



Weatherford

Company: Occidental Permian Ltd	Date: 5/2/2014	Time: 09:32:47	Page: 1
Field: Eddy Co, NM (Nad 27)	Co-ordinate(NE) Reference: Well: Fed 26 #13H Grid North		
Site: Federal 26 #13H	Vertical (TVD) Reference: SITE 3599.3		
Well: Fed 26 #13H	Section (VS) Reference: Well (0.00N, 0.00E, 178.18Az)		
Wellpath: 1	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Plan: Plan #3v2	Date Composed: 3/27/2013
Principal: No	Version: 1
	Tied-to: From Surface

Site: Federal 26 #13H

Site Position:	Northing: 498339.60 ft	Latitude: 32 22 7.280 N
From: Map	Easting: 680942.60 ft	Longitude: 103 44 50.225 W
Position Uncertainty: 0.00 ft		North Reference: Grid
Ground Level: 3574.30 ft		Grid Convergence: 0.31 deg

Well: Fed 26 #13H Slot Name:

Well Position:	+N-S 0.00 ft	Northing: 498339.60 ft	Latitude: 32 22 7.280 N
	+E-W 0.00 ft	Easting: 680942.60 ft	Longitude: 103 44 50.225 W
Position Uncertainty: 0.00 ft			

Wellpath: 1

Current Datum: SITE	Height 3599.30 ft	Drilled From: Surface	Tie-on Depth: 0.00 ft
Magnetic Data: 1/1/2014		Above System Datum: Mean Sea Level	
Field Strength: 48455 nT		Declination: 7.37 deg	
Vertical Section: Depth From (TVD) ft	+N-S ft	Mag Dip Angle: 60.23 deg	Direction deg
0.00	0.00	0.00	178.18

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	
7559.77	0.00	0.00	7559.77	0.00	0.00	0.00	0.00	0.00	0.00	
7872.27	25.00	152.70	7862.45	-59.63	30.78	8.00	8.00	0.00	152.70	
8720.80	90.00	179.71	8299.30	-722.65	126.61	8.00	7.66	3.18	29.36	
12585.20	90.00	179.71	8299.30	-4587.00	145.90	0.00	0.00	0.00	0.00	PBHL
12735.20	90.00	179.71	8299.30	-4737.00	146.65	0.00	0.00	0.00	0.00	

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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	498339.60	680942.60	
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	498339.60	680942.60	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	498339.60	680942.60	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	498339.60	680942.60	
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	498339.60	680942.60	
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	498339.60	680942.60	
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	498339.60	680942.60	
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	498339.60	680942.60	
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	498339.60	680942.60	
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	498339.60	680942.60	
1000.00	0.00	0.00	1000.00	0.00	0.00	0.00	0.00	498339.60	680942.60	
1100.00	0.00	0.00	1100.00	0.00	0.00	0.00	0.00	498339.60	680942.60	
1200.00	0.00	0.00	1200.00	0.00	0.00	0.00	0.00	498339.60	680942.60	
1300.00	0.00	0.00	1300.00	0.00	0.00	0.00	0.00	498339.60	680942.60	
1400.00	0.00	0.00	1400.00	0.00	0.00	0.00	0.00	498339.60	680942.60	
1500.00	0.00	0.00	1500.00	0.00	0.00	0.00	0.00	498339.60	680942.60	
1600.00	0.00	0.00	1600.00	0.00	0.00	0.00	0.00	498339.60	680942.60	
1700.00	0.00	0.00	1700.00	0.00	0.00	0.00	0.00	498339.60	680942.60	
1800.00	0.00	0.00	1800.00	0.00	0.00	0.00	0.00	498339.60	680942.60	
1900.00	0.00	0.00	1900.00	0.00	0.00	0.00	0.00	498339.60	680942.60	
2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00	498339.60	680942.60	



Weatherford International Ltd.

WFT Plan Report - X & Y's



Weatherford

Company: Occidental Permian Ltd	Date: 5/2/2014	Time: 09:32:47	Page: 3
Field: Eddy Co. NM (Nad 27)	Co-ordinate(NE) Reference: Well: Fed 26 #13H/ Grid North	498339.60 680942.60	
Site: Federal 26 #13H	Vertical (TYD) Reference: SITE 3599.3	498339.60 680942.60	
Well: Fed 26 #13H	Section (YS) Reference: Well (0.00N,0.00E;178.18Az)	498339.60 680942.60	
Wellpath: 1	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Survey

MD ft	Incl deg	Azim deg	TYD ft	NS ft	EAY ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comment
2100.00	0.00	0.00	2100.00	0.00	0.00	0.00	0.00	498339.60	680942.60	
2200.00	0.00	0.00	2200.00	0.00	0.00	0.00	0.00	498339.60	680942.60	
2300.00	0.00	0.00	2300.00	0.00	0.00	0.00	0.00	498339.60	680942.60	
2400.00	0.00	0.00	2400.00	0.00	0.00	0.00	0.00	498339.60	680942.60	
2500.00	0.00	0.00	2500.00	0.00	0.00	0.00	0.00	498339.60	680942.60	
2600.00	0.00	0.00	2600.00	0.00	0.00	0.00	0.00	498339.60	680942.60	
2700.00	0.00	0.00	2700.00	0.00	0.00	0.00	0.00	498339.60	680942.60	
2800.00	0.00	0.00	2800.00	0.00	0.00	0.00	0.00	498339.60	680942.60	
2900.00	0.00	0.00	2900.00	0.00	0.00	0.00	0.00	498339.60	680942.60	
3000.00	0.00	0.00	3000.00	0.00	0.00	0.00	0.00	498339.60	680942.60	
3100.00	0.00	0.00	3100.00	0.00	0.00	0.00	0.00	498339.60	680942.60	
3200.00	0.00	0.00	3200.00	0.00	0.00	0.00	0.00	498339.60	680942.60	
3300.00	0.00	0.00	3300.00	0.00	0.00	0.00	0.00	498339.60	680942.60	
3400.00	0.00	0.00	3400.00	0.00	0.00	0.00	0.00	498339.60	680942.60	
3500.00	0.00	0.00	3500.00	0.00	0.00	0.00	0.00	498339.60	680942.60	
3600.00	0.00	0.00	3600.00	0.00	0.00	0.00	0.00	498339.60	680942.60	
3700.00	0.00	0.00	3700.00	0.00	0.00	0.00	0.00	498339.60	680942.60	
3800.00	0.00	0.00	3800.00	0.00	0.00	0.00	0.00	498339.60	680942.60	
3900.00	0.00	0.00	3900.00	0.00	0.00	0.00	0.00	498339.60	680942.60	
4000.00	0.00	0.00	4000.00	0.00	0.00	0.00	0.00	498339.60	680942.60	
4100.00	0.00	0.00	4100.00	0.00	0.00	0.00	0.00	498339.60	680942.60	
4200.00	0.00	0.00	4200.00	0.00	0.00	0.00	0.00	498339.60	680942.60	
4300.00	0.00	0.00	4300.00	0.00	0.00	0.00	0.00	498339.60	680942.60	
4400.00	0.00	0.00	4400.00	0.00	0.00	0.00	0.00	498339.60	680942.60	
4500.00	0.00	0.00	4500.00	0.00	0.00	0.00	0.00	498339.60	680942.60	
4600.00	0.00	0.00	4600.00	0.00	0.00	0.00	0.00	498339.60	680942.60	
4700.00	0.00	0.00	4700.00	0.00	0.00	0.00	0.00	498339.60	680942.60	
4800.00	0.00	0.00	4800.00	0.00	0.00	0.00	0.00	498339.60	680942.60	
4900.00	0.00	0.00	4900.00	0.00	0.00	0.00	0.00	498339.60	680942.60	
5000.00	0.00	0.00	5000.00	0.00	0.00	0.00	0.00	498339.60	680942.60	
5100.00	0.00	0.00	5100.00	0.00	0.00	0.00	0.00	498339.60	680942.60	
5200.00	0.00	0.00	5200.00	0.00	0.00	0.00	0.00	498339.60	680942.60	
5300.00	0.00	0.00	5300.00	0.00	0.00	0.00	0.00	498339.60	680942.60	
5400.00	0.00	0.00	5400.00	0.00	0.00	0.00	0.00	498339.60	680942.60	
5500.00	0.00	0.00	5500.00	0.00	0.00	0.00	0.00	498339.60	680942.60	
5600.00	0.00	0.00	5600.00	0.00	0.00	0.00	0.00	498339.60	680942.60	
5700.00	0.00	0.00	5700.00	0.00	0.00	0.00	0.00	498339.60	680942.60	
5800.00	0.00	0.00	5800.00	0.00	0.00	0.00	0.00	498339.60	680942.60	
5900.00	0.00	0.00	5900.00	0.00	0.00	0.00	0.00	498339.60	680942.60	
6000.00	0.00	0.00	6000.00	0.00	0.00	0.00	0.00	498339.60	680942.60	
6100.00	0.00	0.00	6100.00	0.00	0.00	0.00	0.00	498339.60	680942.60	
6200.00	0.00	0.00	6200.00	0.00	0.00	0.00	0.00	498339.60	680942.60	
6300.00	0.00	0.00	6300.00	0.00	0.00	0.00	0.00	498339.60	680942.60	
6400.00	0.00	0.00	6400.00	0.00	0.00	0.00	0.00	498339.60	680942.60	
6500.00	0.00	0.00	6500.00	0.00	0.00	0.00	0.00	498339.60	680942.60	
6600.00	0.00	0.00	6600.00	0.00	0.00	0.00	0.00	498339.60	680942.60	
6700.00	0.00	0.00	6700.00	0.00	0.00	0.00	0.00	498339.60	680942.60	
6800.00	0.00	0.00	6800.00	0.00	0.00	0.00	0.00	498339.60	680942.60	
6900.00	0.00	0.00	6900.00	0.00	0.00	0.00	0.00	498339.60	680942.60	
7000.00	0.00	0.00	7000.00	0.00	0.00	0.00	0.00	498339.60	680942.60	
7100.00	0.00	0.00	7100.00	0.00	0.00	0.00	0.00	498339.60	680942.60	
7200.00	0.00	0.00	7200.00	0.00	0.00	0.00	0.00	498339.60	680942.60	
7300.00	0.00	0.00	7300.00	0.00	0.00	0.00	0.00	498339.60	680942.60	



Weatherford International Ltd.

WFT Plan Report - X & Y's



Weatherford

Company: Occidental Permian Ltd.	Date: 5/2/2014	Time: 09:32:47	Page: 3
Field: Eddy Co, NM (Nad 27)	Co-ordinate (NE) Reference:	Well: Fed 26 #13H Gnd North	
Site: Federal 26 #13H	Vertical (TVD) Reference:	SITE 3599.3	
Well: Fed 26 #13H	Section (VS) Reference:	Well (0.00N, 0.00E, 178.18Azi)	
Wellpath: 1	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey

MD R	Incl deg	Azim deg	TVD R	N/S R	E/W R	VS R	DLS deg/100ft	MapN R	MapE R	Comment
7400.00	0.00	0.00	7400.00	0.00	0.00	0.00	0.00	498339.60	680942.60	
7500.00	0.00	0.00	7500.00	0.00	0.00	0.00	0.00	498339.60	680942.60	
7559.77	0.00	0.00	7559.77	0.00	0.00	0.00	0.00	498339.60	680942.60	KOP
7600.00	3.22	152.70	7599.98	-1.00	0.52	1.02	8.00	498338.60	680943.12	
7650.00	7.22	152.70	7649.76	-5.04	2.60	5.12	8.00	498334.56	680945.20	
7700.00	11.22	152.70	7699.11	-12.16	6.28	12.35	8.00	498327.44	680948.88	
7750.00	15.22	152.70	7747.77	-22.32	11.52	22.67	8.00	498317.28	680954.12	
7800.00	19.22	152.70	7795.52	-35.47	18.31	36.03	8.00	498304.13	680960.91	
7850.00	23.22	152.70	7842.12	-51.54	26.60	52.36	8.00	498288.06	680969.20	
7872.27	25.00	152.70	7862.45	-59.63	30.78	60.58	8.00	498279.97	680973.38	Build/Turn
7900.00	26.95	155.10	7887.38	-70.54	36.11	71.65	8.00	498269.06	680978.71	
7950.00	30.56	158.70	7931.20	-92.67	45.50	94.07	8.00	498246.93	680988.10	
8000.00	34.25	161.59	7973.41	-117.87	54.57	119.54	8.00	498221.73	680997.17	
8050.00	37.99	163.98	8013.80	-146.02	63.26	147.96	8.00	498193.58	681005.86	
8100.00	41.78	166.00	8052.16	-176.99	71.54	179.17	8.00	498162.61	681014.14	
8150.00	45.59	167.74	8088.31	-210.62	79.37	213.03	8.00	498128.98	681021.97	
8200.00	49.43	169.27	8122.07	-246.75	86.70	249.37	8.00	498092.85	681029.30	
8250.00	53.29	170.63	8153.29	-285.19	93.50	288.02	8.00	498054.41	681036.10	
8300.00	57.16	171.86	8181.80	-325.78	99.75	328.78	8.00	498013.82	681042.35	
8350.00	61.04	172.98	8207.47	-368.30	105.39	371.46	8.00	497971.30	681047.99	
8400.00	64.93	174.03	8230.18	-412.55	110.42	415.85	8.00	497927.05	681053.02	
8450.00	68.83	175.01	8249.81	-458.31	114.81	461.73	8.00	497881.29	681057.41	
8500.00	72.73	175.94	8266.27	-505.37	118.53	508.88	8.00	497834.23	681061.13	
8550.00	76.64	176.83	8279.47	-553.49	121.57	557.07	8.00	497786.11	681064.17	
8600.00	80.55	177.69	8289.36	-602.44	123.91	606.07	8.00	497737.16	681066.51	
8650.00	84.46	178.54	8295.88	-651.97	125.54	655.63	8.00	497687.63	681068.14	
8700.00	88.37	179.37	8299.00	-701.86	126.45	705.52	8.00	497637.74	681069.05	
8720.80	90.00	179.71	8299.30	-722.65	126.61	726.31	8.00	497616.95	681069.21	LP/Hold
8800.00	90.00	179.71	8299.30	-801.85	127.01	805.48	0.00	497537.75	681069.61	
8900.00	90.00	179.71	8299.30	-901.85	127.51	905.44	0.00	497437.75	681070.11	
9000.00	90.00	179.71	8299.30	-1001.85	128.01	1005.41	0.00	497337.75	681070.61	
9100.00	90.00	179.71	8299.30	-1101.85	128.51	1105.37	0.00	497237.75	681071.11	
9200.00	90.00	179.71	8299.30	-1201.85	129.00	1205.34	0.00	497137.75	681071.60	
9300.00	90.00	179.71	8299.30	-1301.85	129.50	1305.30	0.00	497037.75	681072.10	
9400.00	90.00	179.71	8299.30	-1401.84	130.00	1405.27	0.00	496937.76	681072.60	
9500.00	90.00	179.71	8299.30	-1501.84	130.50	1505.23	0.00	496837.76	681073.10	
9600.00	90.00	179.71	8299.30	-1601.84	131.00	1605.19	0.00	496737.76	681073.60	
9700.00	90.00	179.71	8299.30	-1701.84	131.50	1705.16	0.00	496637.76	681074.10	
9800.00	90.00	179.71	8299.30	-1801.84	132.00	1805.12	0.00	496537.76	681074.60	
9900.00	90.00	179.71	8299.30	-1901.84	132.50	1905.09	0.00	496437.76	681075.10	
10000.00	90.00	179.71	8299.30	-2001.84	133.00	2005.05	0.00	496337.76	681075.60	
10100.00	90.00	179.71	8299.30	-2101.84	133.50	2105.01	0.00	496237.76	681076.10	
10200.00	90.00	179.71	8299.30	-2201.83	134.00	2204.98	0.00	496137.77	681076.60	
10300.00	90.00	179.71	8299.30	-2301.83	134.49	2304.94	0.00	496037.77	681077.09	
10400.00	90.00	179.71	8299.30	-2401.83	134.99	2404.91	0.00	495937.77	681077.59	
10500.00	90.00	179.71	8299.30	-2501.83	135.49	2504.87	0.00	495837.77	681078.09	
10600.00	90.00	179.71	8299.30	-2601.83	135.99	2604.84	0.00	495737.77	681078.59	
10700.00	90.00	179.71	8299.30	-2701.83	136.49	2704.80	0.00	495637.77	681079.09	
10800.00	90.00	179.71	8299.30	-2801.83	136.99	2804.76	0.00	495537.77	681079.59	
10900.00	90.00	179.71	8299.30	-2901.83	137.49	2904.73	0.00	495437.77	681080.09	
11000.00	90.00	179.71	8299.30	-3001.82	137.99	3004.69	0.00	495337.78	681080.59	
11100.00	90.00	179.71	8299.30	-3101.82	138.49	3104.66	0.00	495237.78	681081.09	



Weatherford International Ltd.

WFT Plan Report - X & Y's



Weatherford

Company: Occidental Permian Ltd.	Date: 5/2/2014	Time: 09:32:47	Page: 4
Field: Eddy Co, NM, (Nad 27)	Co-ordinate(NE) Reference: Well: Fed 26 #13H Grid North	Vertical (TVD) Reference: SITE 3599.3	
Site: Federal 26 #13H	Section (VS) Reference: Well (0.00N,0.00E,178.18Azi)	Survey Calculation Method: Minimum Curvature Db: Sybase	
Well: Fed 26 #13H			
Wellpath: 1			

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
11200.00	90.00	179.71	8299.30	-3201.82	138.99	3204.62	0.00	495137.78	681081.59	
11300.00	90.00	179.71	8299.30	-3301.82	139.49	3304.58	0.00	495037.78	681082.09	
11400.00	90.00	179.71	8299.30	-3401.82	139.98	3404.55	0.00	494937.78	681082.58	
11500.00	90.00	179.71	8299.30	-3501.82	140.48	3504.51	0.00	494837.78	681083.08	
11600.00	90.00	179.71	8299.30	-3601.82	140.98	3604.48	0.00	494737.78	681083.58	
11700.00	90.00	179.71	8299.30	-3701.82	141.48	3704.44	0.00	494637.78	681084.08	
11800.00	90.00	179.71	8299.30	-3801.81	141.98	3804.41	0.00	494537.79	681084.58	
11900.00	90.00	179.71	8299.30	-3901.81	142.48	3904.37	0.00	494437.79	681085.08	
12000.00	90.00	179.71	8299.30	-4001.81	142.98	4004.33	0.00	494337.79	681085.58	
12100.00	90.00	179.71	8299.30	-4101.81	143.48	4104.30	0.00	494237.79	681086.08	
12200.00	90.00	179.71	8299.30	-4201.81	143.98	4204.26	0.00	494137.79	681086.58	
12300.00	90.00	179.71	8299.30	-4301.81	144.48	4304.23	0.00	494037.79	681087.08	
12400.00	90.00	179.71	8299.30	-4401.81	144.98	4404.19	0.00	493937.79	681087.58	
12500.00	90.00	179.71	8299.30	-4501.81	145.47	4504.15	0.00	493837.79	681088.07	
12585.20	90.00	179.71	8299.30	-4587.00	145.90	4589.32	0.00	493752.60	681088.50	PBHL
12600.00	90.00	179.71	8299.30	-4601.80	145.97	4604.12	0.00	493737.80	681088.57	
12700.00	90.00	179.71	8299.30	-4701.80	146.47	4704.08	0.00	493637.80	681089.07	
12735.20	90.00	179.71	8299.30	-4737.00	146.65	4739.27	0.00	493602.60	681089.25	TD

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			8299.30	-4587.00	145.90	493752.60	681088.50	32 21 21.880 N	103 44 48.817 W

Casing Points

MD	TVD	Diameter	Hole Size	Name

Annotation

MD ft	TVD ft	
7559.77	7559.77	KOP
7872.27	7862.45	Build/Turn
8720.80	8299.30	LP/Hold
12585.20	8299.30	PBHL
12735.19	8299.30	TD

Formations

MD	TVD	Formations	Lithology	Dip Angle	Dip Direction

OXY USA Inc
Federal 26 #13H

Casing Design Assumptions:

Burst Loads

CSG Test (Surface)

- Internal: Displacement fluid + 70% CSG Burst rating
- External: Pore Pressure from section TD to surface

CSG Test (Intermediate)

- Internal: Displacement fluid + 70% CSG Burst rating
- External: Pore Pressure from the Intermediate hole TD to Surface CSG shoe and MW of the drilling mud that was in the hole when the CSG was run to surface

CSG Test (Production)

- Internal: Displacement fluid + 80% CSG Burst rating
- External: Pore Pressure from the well TD the Intermediate CSG shoe and MW of the drilling mud that was in the hole when the CSG was run to surface

Gas Kick (Surface/Intermediate)

- Internal: Gas Kick based on Pore Pressure or Fracture Gradient @ CSG shoe with a gas 0.115psi/ft Gas gradient to surface while drilling the next hole section (e.g. Gas Kick while drilling the production hole section is a burst load used to design the intermediate CSG)
- External: Pore Pressure from section TD to previous CSG shoe and MW of the drilling mud that was in the hole when the CSG was run to surface

Stimulation (Production)

- Internal: Displacement fluid + Max Frac treating pressure (not to exceed 80% CSG Burst rating)
- External: Pore Pressure from the well TD to the Intermediate CSG shoe and 8.5 ppg MWE to surface

Collapse Loads

Lost Circulation (Surface/Intermediate)

- Internal: Losses experienced while drilling the next hole section (e.g. losses while drilling the production hole section are used as a collapse load to design the intermediate CSG). After losses there will be a column of mud inside the CSG with an equivalent weight to the Pore Pressure of the lost circulation zone
- External: MW of the drilling mud that was in the hole when the CSG was run

Cementing (Surface/Intermediate/Production)

- Internal: Displacement Fluid
- External: Cement Slurries to TOC, MW to surface

Full Evacuation (Production)

- Internal: Atmospheric Pressure
- External: MW of the drilling mud that was in the hole when the CSG was run

Tension Loads

Running CSG (Surface/Intermediate/Production)

- Axial load of the buoyant weight of the string plus either 100 klb over-pull or string weight in air, whichever is less

Green Cement (Surface/Intermediate/Production)

- Axial load of the buoyant weight of the string plus the cement plug bump pressure (Final displacement pressure + 500 psi)

Burst, Collapse and Tensile SF are calculated using Landmark's Stress Check (Casing Design) software.

CONDITIONS OF APPROVAL

Sundry dated 07/18/2014

OPERATOR'S NAME:	OXY USA Inc
LEASE NO.:	NM62590
WELL NAME & NO.:	13H Federal 26
SURFACE HOLE FOOTAGE:	334' FNL & 2378' FEL
BOTTOM HOLE FOOTAGE:	350' FSL & 2260' FEL
LOCATION:	Section 26, T.22 S., R.31 E., NMPM
COUNTY:	Eddy County, New Mexico

Original COA still stand with the following drilling modifications:

R-111-P Potash

WIPP

Possibility of water and brine flows in the Salado and Castile.

Possibility of lost circulation in the Delaware and Bone Spring.

1. The 13-3/8 inch surface casing shall be set at approximately 900 feet (in a competent bed below the Magenta Dolomite, which is a Member of the Rustler, and if salt is encountered, set casing at least 25 feet above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.**
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.

Formation below the 13-3/8" shoe to be tested according to Onshore Order

2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe and the mud weight for the bottom of the hole. Report results to BLM office.

Intermediate is to be kept liquid filled while running in hole to meet BLM minimum collapse safety factor.

2. The minimum required fill of cement behind the 9-5/8 inch intermediate casing, which shall be set at approximately 4450 feet, is:

Cement to surface. If cement does not circulate see B.1.a, c-d above. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to potash.**

Formation below the 9-5/8" shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe (not the mud weight required to prevent dissolving the salt formation) and the mud weight for the bottom of the hole. Report results to BLM office.

Centralizers required on horizontal leg, must be type for horizontal service and a minimum of one every other joint.

3. The minimum required fill of cement behind the 5-1/2 inch production casing is:

Operator proposed contingency DV tool at 4650' has been removed.

Cement to surface. If cement does not circulate, contact the appropriate BLM office.

4. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
5. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

EGF 080314