

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

FEB 15 2013

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.

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		8. Well Name and No. CYPRESS 34 FEDERAL 8H
2. Name of Operator OXY USA INCORPORATED Contact: DAVID STEWART E-Mail: DAVID_STEWART@OXY.COM		9. API Well No. 30-015-39430-00-X1
3a. Address 5 GREENWAY PLAZA STE 110 HOUSTON, TX 77046-0521	3b. Phone No. (include area code) Ph: 432-685-5717	10. Field and Pool, or Exploratory NASH DRAW UNDESIGNATED
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 34 T23S R29E SWSE Lot O 575FSL 1980FEL		11. County or Parish, and State EDDY COUNTY, NM

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

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Change to Original APD
	☐ Convert to Injection	☐ Plug Back	☐ 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 recompleat 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 recompleat 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 to amend the APD for the Cypress 34 Federal #8H, API No. 30-015-39430 to test the 2nd Bone Spring formation with the following changes.

1. Amend the proposed Td's. Pilot Hole-9500'TVD - Horizontal Lateral-8881'-TVD 12975'-TMD
2. See attached for the amended production casing & cementing programs.
3. See attached for the amended proposed directional drilling plan.

The following wells are in the Cedar Canyon Bone Spring and completed in the 1st Bone Spring. I.
Cypress 34 Federal #1 ? 30-015-35053 ? TVD 7915'
2. Cypress 34 Federal #2 ? 30-015-35413 ? TVD 7964'
3. Cypress 34 Federal #3 ? 30-015-35692 ? TVD 7949'
4. Cypress 34 Federal #5 ? 30-015-35693 ? TVD 7924'

RECEIVED
FEB 15 2013
NMOCD ARTESIA

SEE ATTACHED FOR
CONDITIONS OF APPROVAL
Accepted for record
NMOCD 2/15/13
J. Wade

14. I hereby certify that the foregoing is true and correct. Electronic Submission #192069 verified by the BLM Well Information System For OXY USA INCORPORATED, sent to the Carlsbad Committed to AFMSS for processing by DEBORAH MCKINNEY on 01/30/2013 (13DLM1687SE)	
Name (Printed/Typed) DAVID STEWART	Title AUTHORIZED REPRESENTATIVE
Signature (Electronic Submission)	Date 01/29/2013
THIS SPACE FOR FEDERAL OR STATE OFFICE USE	
Approved By _____	Title _____
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 _____	Signature _____ WESLEY W. INGRAM PETROLEUM ENGINEER

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.

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

Additional data for EC transaction #192069 that would not fit on the form

32. Additional remarks, continued

Please see the attached for additional information.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
OPERATOR'S COPYFORM APPROVED
OMB No. 1004-0137
Expires: March 31, 2007**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.

SUBMIT IN TRIPLICATE- Other instructions on reverse side.1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator OXY USA Inc.

16696

3a. Address
P.O. Box 50250 Midland, TX 797103b. Phone No. (include area code)
432-685-5717

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

S-575 FSL 1980 FEL SWSE (O) Sec 34 T23S R29E
B-330 FNL 1980 FEL NWNE (B) " " "

5. Lease Serial No.

WIMM 86024

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.

Cypress 34 Federal #8 H

9. API Well No.

30-015-39430

10. Field and Pool, or Exploratory Area

Wildcat 2nd Bone Spring

11. County or Parish, State

Elly NM

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

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other Amend APD
	☒ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ 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 recomplete 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 recompletion 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 to amend the APD for the Cypress 34 Federal #8H, API No. 30-015-39430 to test the 2nd Bone Spring formation with the following changes.

1. Amend the proposed TD's. Pilot Hole-9500'TVD - Horizontal Lateral-8881'-TVD 12975'-TMD
2. See attached for the amended production casing & cementing programs.
3. See attached for the amended proposed directional drilling plan.

The following wells are in the Cedar Canyon Bone Spring and completed in the 1st Bone Spring.

1. Cypress 34 Federal #1 - 30-015-35053 - TVD 7915'
2. Cypress 34 Federal #2 - 30-015-35413 - TVD 7964'
3. Cypress 34 Federal #3 - 30-015-35692 - TVD 7949'
4. Cypress 34 Federal #5 - 30-015-35693 - TVD 7924'

Denied per potosh
review.
M.H. Dargatzis
3/13/12

14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

David Stewart

Title Regulatory Advisor

Signature

Date

3/13/12

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

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.

(Instructions on page 2)

AMENDED APD

Operator Name/Number:	OXY USA Inc.	16696
Lease Name/Number:	Cypress 34 Federal #8H - 304798	Federal Lease No. NMNM86024
Pool Name/Number:	Wildcat 2nd Bone Spring	Cedar Canyon Bone Spring - 11520
Surface Location:	575 FSL 1980 FEL SWSE(O) Sec 34 T23S R29E	
Bottom Hole Location:	330 FNL 1980 FEL NWNE(B) Sec 34 T23S R29E	

C-102 Plats: 1/6/11 2/27/12 Elevation: 3041.3' GL

Proposed TD:	Pilot Hole	9500'	TVD	Horizontal Lateral	8881'	TVD	12975'	TMD
SL - Lat: 32.2554633	Long: 103.9698205			X= 612373.8	Y= 456845.9		NAD - 1927	
BH - Lat: 32.2675623	Long: 103.9699245			X= 612326.8	Y= 461247.1		NAD - 1927	

Casing Program:

Hole Size	Interval	OD Csg	Weight	Collar	Grade	Condition	Collapse Design Factor	Burst Design Factor	Tension Design Factor
17-1/2"	400'	13-3/8"	48	ST&C	H-40	New	5.72	12.84	16.77
				Hole filled with 8.9# Mud			770#	1730#	
12-1/4"	3100'	9-5/8"	40	LT&C	J-55	New	1.97	3.03	4.19
				Hole filled with 10# Mud			2570#	3950#	
8-3/4"	12975' M	5-1/2"	17	LT&C	N-80	New	2.04	2.51	1.58
DVT @ 6000' - POST @ 3150'				Hole filled with 9.2# Mud			6280#	7740#	

Collapse and burst loads calculated using Stress Check with anticipated loads

Cement Program

- 13-3/8" Surface Circulate cement to surface w/ 290sx PP cmt w/ 4% Bentonite + .25#/sx Poly-E-Flake + 2% CaCl₂, 13.5ppg 1.75 yield 589# 24hr CS 165% Excess followed by 200sx PP cmt w/ 2% CaCl₂ 14.8ppg 1.35 yield 1608# 24hr CS 160% Excess
- 9-5/8" Intermediate Circulate cement to surface w/ 780sx HES light PP cmt w/ 5% Salt + .125#/sx Poly-E-Flake + 3#/sx Kol-Seal, 12.9ppg 1.87 yield 625# 24hr CS 105% Excess followed by 350sx PP cmt w/ 1% CaCl₂, 14.8ppg 1.34 yield 2125# 24hr CS 105% Excess
- 5-1/2" Production Cement 1st stage w/ 440sx HES Light PP cmt w/ 3#/sx Salt + 3#/sx Kol-Seal + 0.4% HR-601, 12.4ppg 2.11 yield 460# 24hr CS 85% Excess followed by 1280sx Super H cmt w/ 3#/sx Kol-Seal + .125#/sx Poly-E-Flake + 0.4% CFR-3 + 0.15% HR-601 + 0.5% Halad R-344 13.2ppg 1.61 yield 1477# 24hr CS 85% Excess, Calc TOC 6000'.
Cement 2nd stage w/ 650sx HES light PP cmt w/ 3#/sx Salt + 3#/sx Kol-Seal + 0.1% HR-601, 12.4ppg 2.07 yield 431# 24hr CS 85% Excess followed by 100sx PP cmt w/ 1% CaCl₂, 14.8ppg 1.34 yield 1907# 24hr CS 85% Excess, Calc TOC-3150'
Cement 3rd stage w/ 400sx HES Light PP cmt w/ 3#/sx Salt, 12.4ppg 1.98 yield 511# 24hr CS 85% Excess followed by 1280sx PP cmt w/ 2% CaCl₂, 14.8ppg 1.35 yield 2025# 24hr CS 85% Excess, Circ Surface
- Pilot Hole Plug Cement w/ 220sx CL H 50/50 Poz cmt w/ 0.3% CFR-3 + 0.1% HR-601, 14.4ppg 1.22 yield 1275# 24hr CS 35% excess from 9500' to +/-9000' followed by 265sx CL H 50/50 Poz cmt w/ 0.5% CFR-3, 14.4ppg 1.22 yield 1275# 24hr CS 35% Excess from 9000' to +/-8400' followed by 280sx PPC w/ 3% KCl + 0.75% CFR-3 + 0.3% HR-601, 17.5ppg .96 yield 6685# 24hr CS 35% Excess from 8400' to +/-7900'.

Proposed Mud Circulation System

<u>Depth</u>	<u>Mud Wt.</u> <u>ppg</u>	<u>Visc</u> <u>sec</u>	<u>Fluid</u> <u>Loss</u>	<u>Type System</u>
0 - 400'	8.4-8.9	32-34	NC	Fresh Water/Spud Mud
400 - 3100'	9.8-10.0	28-29	NC	Brine Water
3100 - 6000'	8.6-8.8	28-29	NC	Fresh Water
6000 - TD'	9.0-9.2	50-50	8-15	LSND

Pump high viscosity sweeps as needed for hole cleaning. The mud system will be monitored visually/manually as well as with an electronic PVT. The necessary mud products for additional weight and fluid loss control will be on location at all times.

BOP Program (1):

Surface None

Production 13-5/8" 10M two ram stack w/ 5M annular preventer, 10M Choke Manifold

Estimated Tops of Geological Markers & Depths of Anticipated Fresh Water, Oil or Gas:

<u>Geological Marker</u>	<u>Depth</u>	<u>Source</u>
a. Upper Permian Sand	170'	Water
b. Anhydrite	337'	---
c. Top Salt	648'	---
d. Base Salt	2894'	---
e. Delaware	3101'	Oil
f. Bell Canyon	3133'	Oil
g. Cherry Canyon	3987'	Oil
h. Brushy Canyon	5195'	Oil
i. Bone Spring	6775'	Oil
j. 1st Bone Spring Sand	7795'	Oil
k. 2nd Bone Spring	8090'	Oil
l. 2nd Bone Spring Sand	8650'	Oil

Spacing Unit:

160ac

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 30-015-39430	Pool Code	Pool Name Willcat 2nd Bone Spring
Property Code 304798	Property Name CYPRESS "34" FEDERAL	Well Number 8H
OGRID No. 16694	Operator Name OXY USA INC.	Elevation 3041.3'

Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	34	23 SOUTH	29 EAST, N.M.P.M.		575'	SOUTH	1980'	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
B	34	23 SOUTH	29 EAST, N.M.P.M.		330'	NORTH	1980'	EAST	EDDY

Dedicated Acres 160	Joint or Infill N	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.

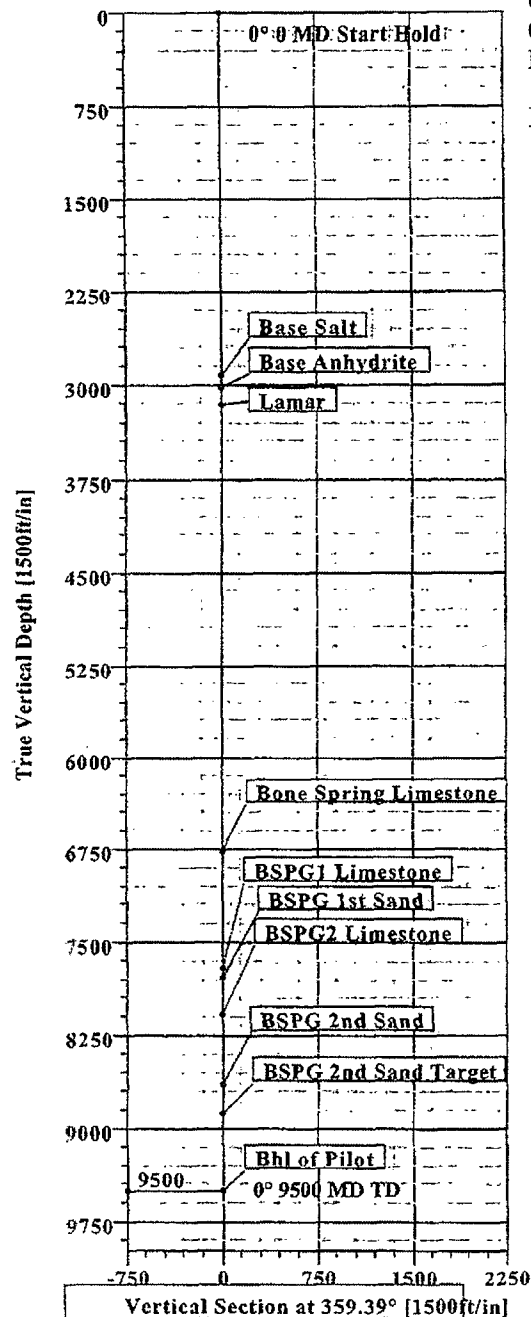
BOTTOM HOLE LOCATION NEW MEXICO EAST NAD 1927 Y=461247.1 X=612326.8 LAT.: N 32.2675623° LONG.: W 103.9699245° SURFACE LOCATION NEW MEXICO EAST NAD 1927 Y=456845.9 X=612373.8 LAT.: N 32.2554633° LONG.: W 103.9698205° GRID AZ = 359°23' 4401.6' PRODUCING AREA PROJECT AREA	OPERATOR CERTIFICATION I hereby 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. <i>David Stewart</i> 3/13/12 Signature Date David Stewart - Reg. Ado. Printed Name SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted 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. REGISTERED SURVEYOR 15079 JANUARY 6, 2011 Date Survey Signature and Seal of Professional Land Surveyor <i>Terry J. Hall</i> 2/27/2011 Certificate Number 15079 WO# 110106WL-b (Rev. A) (KA)
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KB ELEV: 3066.30
GL ELEV: 3041.30



Occidental Permian Ltd.
Cypress 34 Fed #8H
Eddy Co, NM

Pilot Hole



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

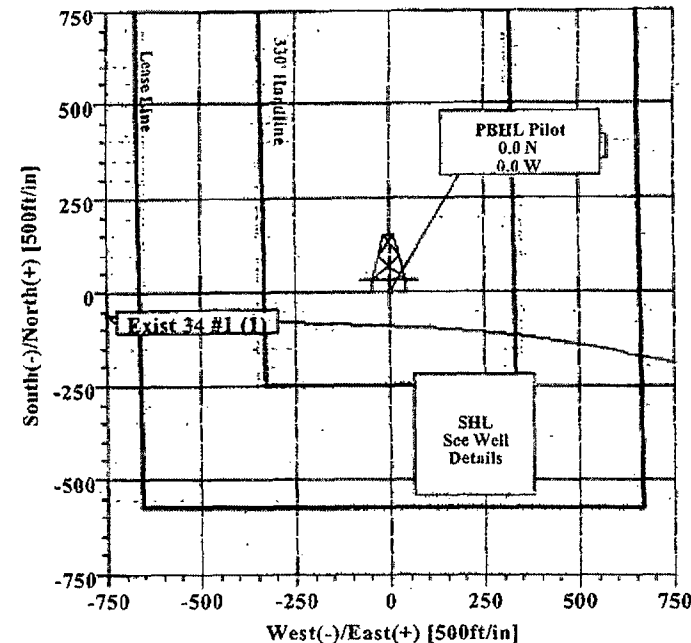
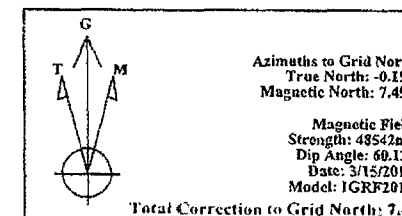
SITE DETAILS	
Cypress 34 Fed #8H	
Site Centre Northing:	456845.90
Easting:	612373.80
Ground Level:	3041.30
Positional Uncertainty:	0.00
Convergence:	0.19

SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	D Leg	T Face	V Sec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	9500.00	0.00	0.00	9500.00	0.00	0.00	0.00	0.00	0.00	

WELL DETAILS						
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
#8H	0.00	0.00	456845.90	612373.80	32°15'19.668N	103°58'11.354W

TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
None						

LEGEND	
	Cypress 34 Fed #7H (1)
	Cypress 34 Fed #7H (RSS Plan)
	#8H (Lateral)
	Exist 34 #1 (1)
	Exist 34 #2 (1)
	Exist 34 #3 (1)
	Pilot
	Plan #1



Plan: Plan #1 (#8H/Pilot)
Created By: Patrick Rudolph
Date: 2/27/2012



Weatherford International Ltd.

WFT Plan Report - X & Y's



Weatherford

Company: Occidental Permian Ltd.	Date: 2/27/2012	Time: 12:53:41	Page: 1
Field: Eddy Co, NM (Nad 27)	Co-ordinate (NE) Reference:	Well: #8H Grid North	
Site: Cypress 34 Fed #8H	Vertical (TVD) Reference:	SITE 3065.0'	
Well: #8H	Section (VS) Reference:	Well: (0.00N, 0.00E, 359.39Azi)	
Wellpath: Pilot	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Plan: Plan #1	Date Composed: 2/27/2012
Principal: Yes	Version: 1
	Tied-to: From Surface

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:		Cypress 34 Fed #8H			
Site Position:		Northing:	456845.90 ft	Latitude:	32 15 19.668 N
From:	Map	Easting:	612373.80 ft	Longitude:	103 58 11.354 W
Position Uncertainty:	0.00 ft			North Reference:	Grid
Ground Level:	3041.30 ft			Grid Convergence:	0.19 deg

Well:	#8H	Slot Name:						
Well Position:	+N/-S	0.00 ft	Northing:	456845.90 ft	Latitude:	32	15	19.668 N
	+E/-W	0.00 ft	Easting :	612373.80 ft	Longitude:	103	58	11.354 W
Position Uncertainty:		0.00 ft						

Wellpath:	Pilot		Drilled From:	Surface
Current Datum:	SITE	Height 3065.00 ft	Tie-on Depth:	0.00 ft
Magnetic Data:	3/15/2012		Above System Datum:	Mean Sea Level
Field Strength:	48542 nT		Declination:	7.68 deg
Vertical Section:	Depth From (TVD)	+N/-S	Mag Dip Angle:	60.13 deg
	ft	ft	+E/-W	Direction
			ft	deg
	0.00	0.00	0.00	359.39

MD	Incl	Azim	TVD	+N/-S	+E/-W	DLS	Build	Turn	TFO	Target
ft	deg	deg	ft	ft	ft	deg/100ft	deg/100ft	deg/100ft	deg	ft
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9500.00	0.00	0.00	9500.00	0.00	0.00	0.00	0.00	0.00	0.00	

MD	Incl	Azim	TVD	N/S	E/W	VS	DLS	MapN	MapE	Comment
ft	deg	deg	ft	ft	ft	ft	deg/100ft	ft	ft	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
235.00	0.00	0.00	235.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	456845.90	612373.80	Csg
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
1000.00	0.00	0.00	1000.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
1100.00	0.00	0.00	1100.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
1200.00	0.00	0.00	1200.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
1300.00	0.00	0.00	1300.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
1400.00	0.00	0.00	1400.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
1500.00	0.00	0.00	1500.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
1600.00	0.00	0.00	1600.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
1700.00	0.00	0.00	1700.00	0.00	0.00	0.00	0.00	456845.90	612373.80	



Weatherford International Ltd.

WFT Plan Report - X & Y's



Weatherford

Company: Occidental Permian Ltd.

Field: Eddy Co. NM. (Nad 27)

Site: Cypress 34 Fed #8H

Well: #8H

Wellpath: Pilot

Date: 2/27/2012

Time: 12:53:41

Page: 2

Co-ordinate(NE) Reference: Well #8H Grid North

Vertical (TVD) Reference: SITE 3085.0

Section (VS) Reference: Well (0.00N,0.00E,359.39Azi)

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
1800.00	0.00	0.00	1800.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
1900.00	0.00	0.00	1900.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
2100.00	0.00	0.00	2100.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
2200.00	0.00	0.00	2200.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
2300.00	0.00	0.00	2300.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
2400.00	0.00	0.00	2400.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
2500.00	0.00	0.00	2500.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
2600.00	0.00	0.00	2600.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
2700.00	0.00	0.00	2700.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
2800.00	0.00	0.00	2800.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
2900.00	0.00	0.00	2900.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
2935.00	0.00	0.00	2935.00	0.00	0.00	0.00	0.00	456845.90	612373.80	Base Salt
3000.00	0.00	0.00	3000.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
3025.00	0.00	0.00	3025.00	0.00	0.00	0.00	0.00	456845.90	612373.80	Base Anhydrite
3100.00	0.00	0.00	3100.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
3160.00	0.00	0.00	3160.00	0.00	0.00	0.00	0.00	456845.90	612373.80	Lamar
3200.00	0.00	0.00	3200.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
3300.00	0.00	0.00	3300.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
3400.00	0.00	0.00	3400.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
3500.00	0.00	0.00	3500.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
3600.00	0.00	0.00	3600.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
3700.00	0.00	0.00	3700.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
3800.00	0.00	0.00	3800.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
3900.00	0.00	0.00	3900.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
4000.00	0.00	0.00	4000.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
4100.00	0.00	0.00	4100.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
4200.00	0.00	0.00	4200.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
4300.00	0.00	0.00	4300.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
4400.00	0.00	0.00	4400.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
4500.00	0.00	0.00	4500.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
4600.00	0.00	0.00	4600.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
4700.00	0.00	0.00	4700.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
4800.00	0.00	0.00	4800.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
4900.00	0.00	0.00	4900.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
5000.00	0.00	0.00	5000.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
5100.00	0.00	0.00	5100.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
5200.00	0.00	0.00	5200.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
5300.00	0.00	0.00	5300.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
5400.00	0.00	0.00	5400.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
5500.00	0.00	0.00	5500.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
5600.00	0.00	0.00	5600.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
5700.00	0.00	0.00	5700.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
5800.00	0.00	0.00	5800.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
5900.00	0.00	0.00	5900.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
6000.00	0.00	0.00	6000.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
6100.00	0.00	0.00	6100.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
6200.00	0.00	0.00	6200.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
6300.00	0.00	0.00	6300.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
6400.00	0.00	0.00	6400.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
6500.00	0.00	0.00	6500.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
6600.00	0.00	0.00	6600.00	0.00	0.00	0.00	0.00	456845.90	612373.80	



Weatherford International Ltd.

WFT Plan Report - X & Y's



Weatherford

Company: Occidental Permian Ltd. Date: 2/27/2012 Time: 12:53:41 Page: 3
 Field: Eddy Co. NM (Nad 27) Co-ordinate(NE) Reference: Well: #8H Grid North
 Site: Cypress 34 Fed #8H Vertical (TVD) Reference: SITE 3065.0
 Well: #8H Section (VS) Reference: Well (0.00N 0.00E 359.39Azi)
 Wellpath: Pilot 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
6700.00	0.00	0.00	6700.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
6775.00	0.00	0.00	6775.00	0.00	0.00	0.00	0.00	456845.90	612373.80	Bone Spring Limest
6800.00	0.00	0.00	6800.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
6900.00	0.00	0.00	6900.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
7000.00	0.00	0.00	7000.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
7100.00	0.00	0.00	7100.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
7200.00	0.00	0.00	7200.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
7300.00	0.00	0.00	7300.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
7400.00	0.00	0.00	7400.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
7500.00	0.00	0.00	7500.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
7600.00	0.00	0.00	7600.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
7700.00	0.00	0.00	7700.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
7705.00	0.00	0.00	7705.00	0.00	0.00	0.00	0.00	456845.90	612373.80	BSPG1 Limestone
7795.00	0.00	0.00	7795.00	0.00	0.00	0.00	0.00	456845.90	612373.80	BSPG 1st Sand
7800.00	0.00	0.00	7800.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
7900.00	0.00	0.00	7900.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
8000.00	0.00	0.00	8000.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
8090.00	0.00	0.00	8090.00	0.00	0.00	0.00	0.00	456845.90	612373.80	BSPG2 Limestone
8100.00	0.00	0.00	8100.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
8200.00	0.00	0.00	8200.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
8300.00	0.00	0.00	8300.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
8400.00	0.00	0.00	8400.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
8500.00	0.00	0.00	8500.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
8600.00	0.00	0.00	8600.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
8650.00	0.00	0.00	8650.00	0.00	0.00	0.00	0.00	456845.90	612373.80	BSPG 2nd Sand
8700.00	0.00	0.00	8700.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
8800.00	0.00	0.00	8800.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
8881.00	0.00	0.00	8881.00	0.00	0.00	0.00	0.00	456845.90	612373.80	BSPG 2nd Sand Targ
8900.00	0.00	0.00	8900.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
9000.00	0.00	0.00	9000.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
9100.00	0.00	0.00	9100.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
9200.00	0.00	0.00	9200.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
9300.00	0.00	0.00	9300.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
9400.00	0.00	0.00	9400.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
9500.00	0.00	0.00	9500.00	0.00	0.00	0.00	0.00	456845.90	612373.80	Bhl of Pilot

Targets

Name	Description Dip Dir	TVD	+N-S	+E-W	Map Northing	Map Easting	Latitude Deg Min Sec	Longitude Deg Min Sec
------	------------------------	-----	------	------	-----------------	----------------	-------------------------	--------------------------

Casing Points

MD ft	TVD ft	Diameter in	Hole Size in	Name
235.00	235.00	0.000	0.000	Csg

Annotation

MD ft	TVD ft	
9500.00	9500.00	Bhl of Pilot



Weatherford International Ltd.

WFT Plan Report - X & Y's



Weatherford

Company: Occidental Permian Ltd.
Field: Eddy Co. NM (Nad 27)
Site: Cypress 34 Fed #8H
Well: #8H
Wellpath: Pilot

Date: 2/27/2012 Time: 12:53:41 Page: 4
Co-ordinate(NE) Reference: Well: #8H, Grid North
Vertical (TVD) Reference: SITE 3085.0
Section (VS) Reference: Well (0.00N:0.00E:359.39Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Formations

MD ft	TVD ft	Formations	Lithology	Dip Angle deg	Dip Direction deg
2935.00	2935.00	Base Salt		0.00	0.00
3025.00	3025.00	Base Anhydrite		0.00	0.00
3160.00	3160.00	Lamar		0.00	0.00
6775.00	6775.00	Bone Spring Limestone		0.00	0.00
7705.00	7705.00	BSPG1 Limestone		0.00	0.00
7795.00	7795.00	BSPG 1st Sand		0.00	0.00
8090.00	8090.00	BSPG2 Limestone		0.00	0.00
8650.00	8650.00	BSPG 2nd Sand		0.00	0.00
8881.00	8881.00	BSPG 2nd Sand Target		0.00	0.00



Occidental Permian Ltd.
Cypress 34 Fed #8H
Eddy Co, NM

SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	359.39	0.00	0.00	0.00	0.00	0.00	0.00	
2	8164.80	0.00	359.39	8164.80	0.00	0.00	0.00	0.00	0.00	
3	9289.80	90.00	359.39	8881.00	716.16	-7.66	8.00	359.39	716.20	
4	12975.01	90.00	359.39	8881.00	4401.16	-47.05	0.00	0.00	4401.41	Pbhl #3

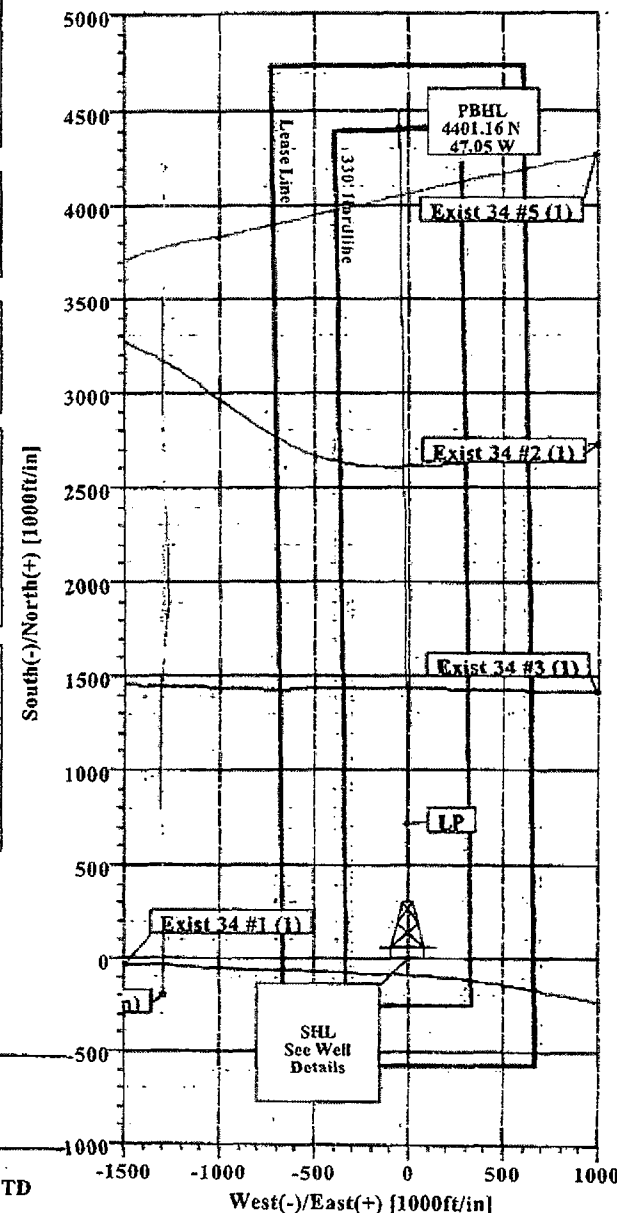
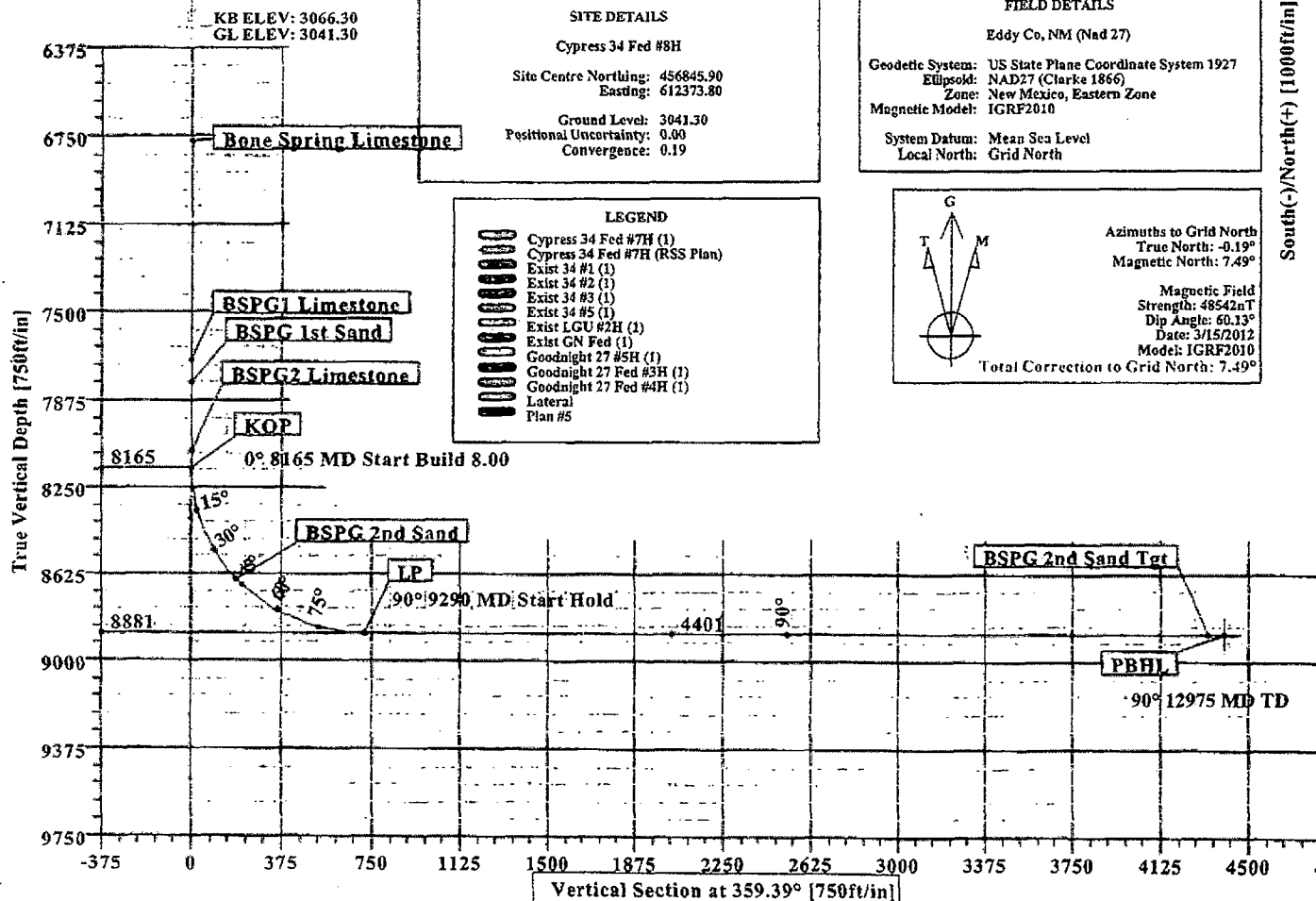
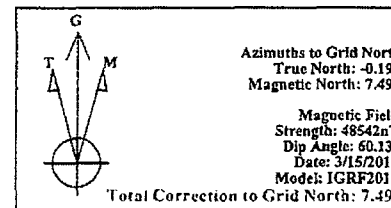
WELL DETAILS						
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
#8H	0.00	0.00	456845.90	612373.80	32°15'19.668"N	103°58'11.354"W

TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
Pbhl #3	8881.00	4401.16	-47.05	461247.06	612326.75	Point

SITE DETAILS	
Cypress 34 Fed #8H	
Site Centre Northing:	456845.90
Easting:	612373.80
Ground Level:	3041.30
Positional Uncertainty:	0.00
Convergence:	0.19

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

LEGEND	
	Cypress 34 Fed #7H (1)
	Cypress 34 Fed #7H (RSS Plan)
	Exist 34 #1 (1)
	Exist 34 #2 (1)
	Exist 34 #3 (1)
	Exist 34 #5 (1)
	Exist LGU #2H (1)
	Exist GN Fed (1)
	Goodnight 27 #5H (1)
	Goodnight 27 Fed #3H (1)
	Goodnight 27 Fed #4H (1)
	Lateral Plan #5



Weatherford

Plan: Plan #5 (#8H/Lateral)

Created By: Patrick Rudolph

Date: 2/27/2012



Weatherford International Ltd.

WFT Plan Report - X & Y's



Weatherford

Company: Occidental Permian Ltd.	Date: 2/27/2012	Time: 12:10:18	Page: 1
Field: Eddy Co, NM (Nad 27)	Co-ordinate(NE) Reference: Well: #8H, Grid North		
Site: Cypress 34 Fed #8H	Vertical (TVD) Reference: SITE 3065.0		
Well: #8H	Section (VS) Reference: Well (0.00N 0.00E 359.39Azi)		
Wellpath: Lateral	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Plan: Plan #5	Date Composed: 2/27/2012
Principal: Yes	Version: 1
	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: Cypress 34 Fed #8H

Site Position:	Northings:	456845.90 ft	Latitude:	32 15 19.668 N
From: Map	Easting:	612373.80 ft	Longitude:	103 58 11.354 W
Position Uncertainty:	0.00 ft		North Reference:	Grid
Ground Level:	3041.30 ft		Grid Convergence:	0.19 deg

Well: #8H	Slot Name:
Well Position: +N/-S 0.00 ft	Northings: 456845.90 ft
+E/-W 0.00 ft	Easting: 612373.80 ft
Position Uncertainty: 0.00 ft	Latitude: 32 15 19.668 N
	Longitude: 103 58 11.354 W

Wellpath: Lateral	Drilled From: Pilot
Current Datum: SITE	Tie-on Depth: 8164.80 ft
Magnetic Data: 3/15/2012	Above System Datum: Mean Sea Level
Field Strength: 48542 nT	Declination: 7.68 deg
Vertical Section: Depth From (TVD)	Mag Dip Angle: 60.13 deg
ft	+N/-S ft
0.00	+E/-W ft
	Direction deg
	0.00
	359.39

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	359.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
8164.80	0.00	359.39	8164.80	0.00	0.00	0.00	0.00	0.00	0.00	
9289.80	90.00	359.39	8881.00	716.16	-7.66	8.00	8.00	0.00	359.39	
12975.01	90.00	359.39	8881.00	4401.16	-47.05	0.00	0.00	0.00	0.00	Pbhl #3

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
8100.00	0.00	359.39	8100.00	0.00	0.00	0.00	0.00	456845.90	612373.80	
8164.80	0.00	359.39	8164.80	0.00	0.00	0.00	0.00	456845.90	612373.80	KOP
8200.00	2.82	359.39	8199.99	0.86	-0.01	0.86	8.00	456846.76	612373.79	
8250.00	6.82	359.39	8249.80	5.06	-0.05	5.06	8.00	456850.96	612373.75	
8300.00	10.82	359.39	8299.20	12.72	-0.14	12.72	8.00	456858.62	612373.66	
8350.00	14.82	359.39	8347.94	23.81	-0.25	23.81	8.00	456869.71	612373.55	
8400.00	18.82	359.39	8395.80	38.27	-0.41	38.27	8.00	456884.17	612373.39	
8450.00	22.82	359.39	8442.52	56.03	-0.60	56.04	8.00	456901.93	612373.20	
8500.00	26.82	359.39	8487.90	77.01	-0.82	77.02	8.00	456922.91	612372.98	
8550.00	30.82	359.39	8531.70	101.11	-1.08	101.11	8.00	456947.01	612372.72	
8600.00	34.82	359.39	8573.71	128.20	-1.37	128.21	8.00	456974.10	612372.43	
8650.00	38.82	359.39	8613.73	158.15	-1.69	158.16	8.00	457004.05	612372.11	
8697.87	42.65	359.39	8650.00	189.38	-2.02	189.39	8.00	457035.28	612371.78	BSPG 2nd Sand
8700.00	42.82	359.39	8651.56	190.83	-2.04	190.84	8.00	457036.73	612371.76	
8750.00	46.82	359.39	8687.02	226.06	-2.42	226.07	8.00	457071.96	612371.38	
8800.00	50.82	359.39	8719.94	263.68	-2.82	263.69	8.00	457109.58	612370.98	
8850.00	54.82	359.39	8750.15	303.50	-3.24	303.52	8.00	457149.40	612370.56	



Weatherford International Ltd.

WFT Plan Report - X & Y's



Weatherford

Company: Occidental Permian Ltd.
Field: Eddy Co: NM (Nad 27)
Site: Cypress 34 Fed #8H
Well: #8H
Wellpath: Lateral

Date: 2/27/2012 Time: 12:10:18 Page: 2
Co-ordinate(NE) Reference: Well: #8H, Grid North
Vertical (TVD) Reference: SITE 3065.0
Section (VS) Reference: Well (0.00N,0.00E,359.39Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey

MD ft	Incl. deg	Azimuth deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comment
8900.00	58.82	359.39	8777.51	345.34	-3.69	345.36	8.00	457191.24	612370.11	
8950.00	62.82	359.39	8801.89	388.98	-4.16	389.00	8.00	457234.88	612369.64	
9000.00	66.82	359.39	8823.16	434.21	-4.64	434.24	8.00	457280.11	612369.16	
9050.00	70.82	359.39	8841.23	480.82	-5.14	480.85	8.00	457326.72	612368.66	
9100.00	74.82	359.39	8856.00	528.58	-5.65	528.61	8.00	457374.48	612368.15	
9150.00	78.82	359.39	8867.40	577.25	-6.17	577.28	8.00	457423.15	612367.63	
9200.00	82.82	359.39	8875.38	626.59	-6.70	626.63	8.00	457472.49	612367.10	
9250.00	86.82	359.39	8879.89	676.38	-7.23	676.42	8.00	457522.28	612366.57	
9289.80	90.00	359.39	8881.00	716.16	-7.66	716.20	8.00	457562.06	612366.14	LP
9300.00	90.00	359.39	8881.00	726.35	-7.76	726.39	0.00	457572.25	612366.04	
9400.00	90.00	359.39	8881.00	826.35	-8.83	826.39	0.00	457672.25	612364.97	
9500.00	90.00	359.39	8881.00	926.34	-9.90	926.39	0.00	457772.24	612363.90	
9600.00	90.00	359.39	8881.00	1026.34	-10.97	1026.39	0.00	457872.24	612362.83	
9700.00	90.00	359.39	8881.00	1126.33	-12.04	1126.39	0.00	457972.23	612361.76	
9800.00	90.00	359.39	8881.00	1226.32	-13.11	1226.39	0.00	458072.22	612360.69	
9900.00	90.00	359.39	8881.00	1326.32	-14.18	1326.39	0.00	458172.22	612359.62	
10000.00	90.00	359.39	8881.00	1426.31	-15.25	1426.39	0.00	458272.21	612358.55	
10100.00	90.00	359.39	8881.00	1526.31	-16.32	1526.39	0.00	458372.21	612357.48	
10200.00	90.00	359.39	8881.00	1626.30	-17.38	1626.39	0.00	458472.20	612356.42	
10300.00	90.00	359.39	8881.00	1726.30	-18.45	1726.39	0.00	458572.20	612355.35	
10400.00	90.00	359.39	8881.00	1826.29	-19.52	1826.39	0.00	458672.19	612354.28	
10500.00	90.00	359.39	8881.00	1926.28	-20.59	1926.39	0.00	458772.18	612353.21	
10600.00	90.00	359.39	8881.00	2026.28	-21.66	2026.39	0.00	458872.18	612352.14	
10700.00	90.00	359.39	8881.00	2126.27	-22.73	2126.39	0.00	458972.17	612351.07	
10800.00	90.00	359.39	8881.00	2226.27	-23.80	2226.39	0.00	459072.17	612350.00	
10900.00	90.00	359.39	8881.00	2326.26	-24.87	2326.39	0.00	459172.16	612348.93	
11000.00	90.00	359.39	8881.00	2426.26	-25.94	2426.39	0.00	459272.16	612347.86	
11100.00	90.00	359.39	8881.00	2526.25	-27.01	2526.39	0.00	459372.15	612346.79	
11200.00	90.00	359.39	8881.00	2626.24	-28.07	2626.39	0.00	459472.14	612345.73	
11300.00	90.00	359.39	8881.00	2726.24	-29.14	2726.39	0.00	459572.14	612344.66	
11400.00	90.00	359.39	8881.00	2826.23	-30.21	2826.39	0.00	459672.13	612343.59	
11500.00	90.00	359.39	8881.00	2926.23	-31.28	2926.39	0.00	459772.13	612342.52	
11600.00	90.00	359.39	8881.00	3026.22	-32.35	3026.39	0.00	459872.12	612341.45	
11700.00	90.00	359.39	8881.00	3126.22	-33.42	3126.39	0.00	459972.12	612340.38	
11800.00	90.00	359.39	8881.00	3226.21	-34.49	3226.39	0.00	460072.11	612339.31	
11900.00	90.00	359.39	8881.00	3326.20	-35.56	3326.39	0.00	460172.10	612338.24	
12000.00	90.00	359.39	8881.00	3426.20	-36.63	3426.39	0.00	460272.10	612337.17	
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12200.00	90.00	359.39	8881.00	3626.19	-38.76	3626.39	0.00	460472.09	612335.04	
12300.00	90.00	359.39	8881.00	3726.18	-39.83	3726.39	0.00	460572.08	612333.97	
12400.00	90.00	359.39	8881.00	3826.18	-40.90	3826.39	0.00	460672.08	612332.90	
12500.00	90.00	359.39	8881.00	3926.17	-41.97	3926.39	0.00	460772.07	612331.83	
12600.00	90.00	359.39	8881.00	4026.16	-43.04	4026.39	0.00	460872.06	612330.76	
12700.00	90.00	359.39	8881.00	4126.16	-44.11	4126.39	0.00	460972.06	612329.69	
12800.00	90.00	359.39	8881.00	4226.15	-45.18	4226.39	0.00	461072.05	612328.62	
12900.00	90.00	359.39	8881.00	4326.15	-46.25	4326.39	0.00	461172.05	612327.55	BSPG 2nd Sand Tst
12975.01	90.00	359.39	8881.00	4401.16	-47.05	4401.41	0.00	461247.06	612326.75	Pbhl #3



Weatherford International Ltd.

WFT Plan Report - X & Y's



Weatherford

Company: Occidental Permian Ltd.	Date: 2/27/2012	Time: 12:10:18	Page: 3
Field: Eddy Co. NM (Nad 27)	Co-ordinate(NE) Reference:	Well: #8H Grid North	
Site: Cypress 34 Fed #8H	Vertical (TVD) Reference:	SITE 3065.0	
Well: #8H	Section (VS) Reference:	Well (0.00N,0.00E,359.39Azi)	
Wellpath: Lateral	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Targets

Name	Description	Dip	TVD ft	N/S ft	E/W ft	Map Northing ft	Map Easting ft	Latitude Deg Min Sec	Longitude Deg Min Sec
Pbhl #3			8881.00	4401.16	-47.05	461247.06	612326.75	32 16 3.224 N	103 58 11.728 W

Casing Points

MD ft	TVD ft	Diameter in	Hole Size in	Name
235.00	235.00	0.000	0.000	Csg
3125.00	3125.00	0.000	0.000	Csg

Annotation

MD ft	TVD ft	
8164.80	8164.80	KOP
9289.80	8881.00	LP
12975.01	8881.00	PBHL

Formations

MD ft	TVD ft	Formations	Lithology	Dip Angle deg	Dip Direction deg
2935.00	2935.00	Base Salt		0.00	0.00
3025.00	3025.00	Base Anhydrite		0.00	0.00
3160.00	3160.00	Lamar		0.00	0.00
6775.00	6775.00	Bone Spring Limestone		0.00	0.00
7705.00	7705.00	BSPG1 Limestone		0.00	0.00
7795.00	7795.00	BSPG 1st Sand		0.00	0.00
8090.00	8090.00	BSPG2 Limestone		0.00	0.00
8697.87	8650.00	BSPG 2nd Sand		0.00	0.00
12900.00	8881.00	BSPG 2nd Sand Tgt		0.00	0.00

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO 1004-0136
Expires: November 30, 2000

R-111-POTASH

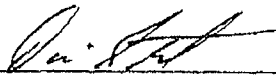
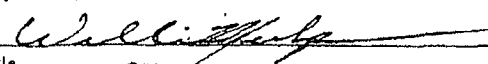
APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No. NMNM086024
6. If Indian, Allottee or Tribe Name
7. Unit or CA Agreement Name and No.
8. Lease Name and Well No. Cypress 34 Federal #8H
9. API Well No 30-015- 39430
10. Field and Pool, or Exploratory Undsg, Nash Draw Delaware, SW
11. Sec., T., R., M., or Blk and Survey or Area Sec 34 T23S R29E
12. County or Parish Eddy
13. State NM
14. Distance in miles and direction from nearest town or post office* 6 miles northeast from Loving, NM
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drg unit line, if any) 400'
16. No. of Acres in Lease 640
17. Spacing Unit dedicated to this well 160
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 1312'
19. Proposed Depth 10851'M 6765'V
20. BLM/BIA Bond No. on file ES0136
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3041.3' GL
22. Approximate date work will start* 9/11/11
23. Estimated duration 45

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No 1, shall be attached to this form:

- | | |
|---|--|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above) |
| 2. A Drilling Plan | 5. Operator certification. |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the authorized officer. |

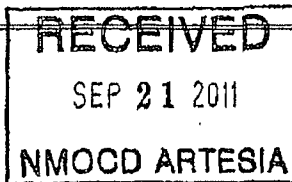
25. Signature 	Name (Printed/Typed) David Stewart	Date 5/10/11
Title Regulatory Advisor		
Approved by (Signature) 	Name (Printed/Typed) William Merhege	Date 8/29/11
Title Acting STATE DIRECTOR	Office NM STATE OFFICE	

Application approval 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.
Conditions of approval, if any, are attached.

APPROVAL FOR TWO YEARS

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.

*(Instructions on Reverse)



Carlsbad Controlled Water Basin

**SEE ATTACHED FOR
CONDITIONS OF APPROVAL**

**Approval Subject to General Requirements
& Special Stipulations Attached**

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-102
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 30-015-39430	Pool Code 97148	Pool Name Wash Draw Delaware, SW
Property Code 304798	Property Name CYPRESS "34" FED.	Well Number 8H
OCRID No. 16696	Operator Name OXY USA INC.	Elevation 3041.3'

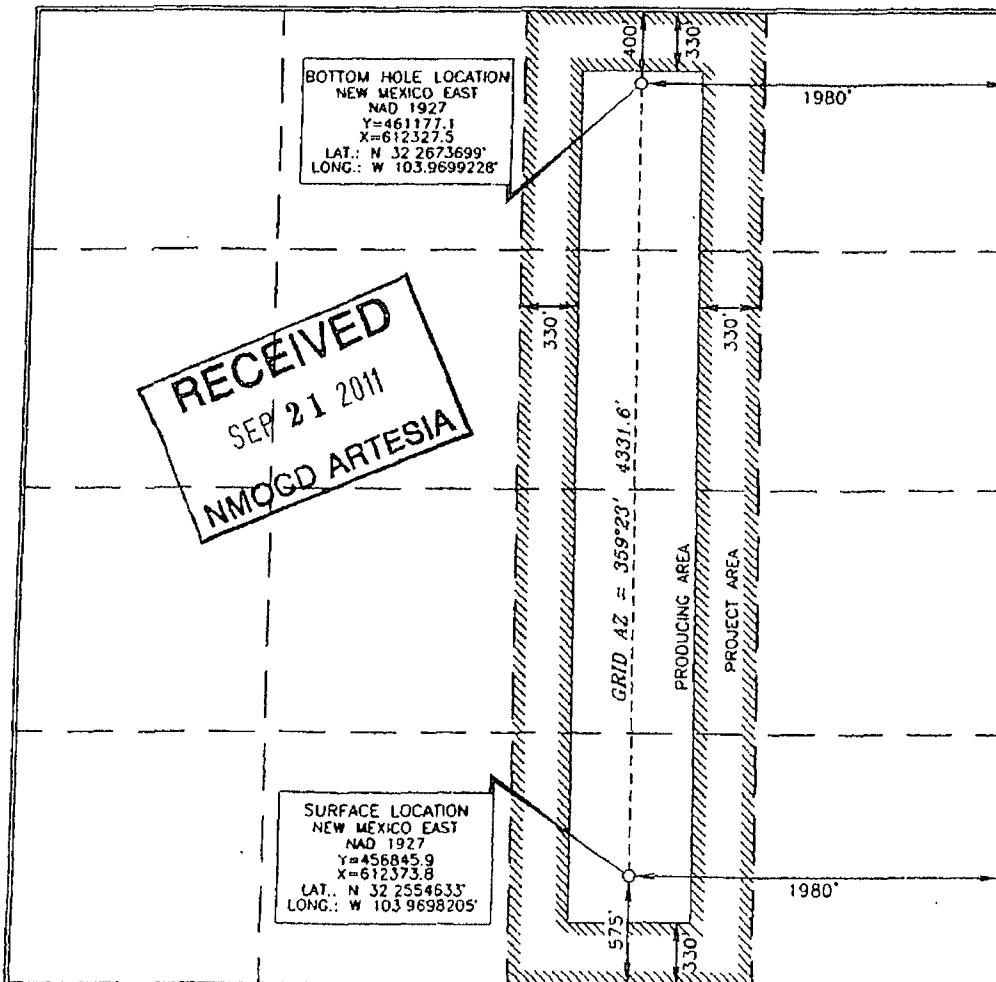
Surface Location

UL or lot no.	Section	Township	Range	Lot 1dn	Feet from the	North/South line	Feet from the	East/West line	County
0	34	23 SOUTH	29 EAST, N.M.P.M.		575'	SOUTH	1980'	EAST	EDDY

Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot 1dn	Feet from the	North/South line	Feet from the	East/West line	County
B	34	23 SOUTH	29 EAST, N.M.P.M.		400'	NORTH	1980'	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 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 5/18/11
Signature Date

David Stewart
Printed Name

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of a local survey made by me or under my supervision, and that the same is true and correct to the best of my belief.

Terry J. Carl 2/18/2011
Date of Survey
Signature and Seal of Professional Surveyor
Certificate Number 15079

W01 110106WL-b (KA)

PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME:	OXY USA INC
LEASE NO.:	NM86024
WELL NAME & NO.:	CYPRESS 34 FEDERAL 8H
SURFACE HOLE FOOTAGE:	0575' FSL & 1980' FEL
BOTTOM HOLE FOOTAGE:	0330' FNL & 1980' FEL
LOCATION:	Section 34, T. 23 S., R. 29 E., NMPM
COUNTY:	Eddy County, New Mexico

I. DRILLING

A. DRILLING OPERATIONS REQUIREMENTS

The BLM is to be notified a minimum of 4 hours in advance for a representative to witness:

- a. Spudding well
- b. Setting and/or Cementing of all casing strings
- c. BOPE tests

☒ **Eddy County**

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822

1. **A Hydrogen Sulfide (H₂S) Drilling Plan shall be activated prior to drilling out the surface shoe. As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.**
2. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval. **If the drilling rig is removed without approval – an Incident of Non-Compliance will be written and will be a “Major” violation.**
3. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.

4. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The top and bottom of Salt are to be recorded on the Completion Report.

B. CASING

Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.).

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

Wait on cement (WOC) time prior to drilling out for a primary cement job will be a minimum 18 hours for a water basin, 24 hours in the potash area, or 500 pounds compressive strength, whichever is greater for all casing strings. DURING THIS WOC TIME, NO DRILL PIPE, ETC. SHALL BE RUN IN THE HOLE. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. See individual casing strings for details regarding lead cement slurry requirements.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

R-111-P potash.

High cave/karst.

Possible lost circulation in the Rustler and Delaware.

1. The 13-3/8 inch surface casing shall be set **at approximately 400 feet (in a competent bed below potential fresh water zones and above the salt)** and cemented to the surface. **If the salt occurs at a shallower depth, the casing is to be set a minimum of 25 feet above the salt.**
 - 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.
2. The minimum required fill of cement behind the 9-5/8 inch intermediate casing, **set in the Lamar or Castile at approximately 3100 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 cave/karst and potash concerns.

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

Operator is to submit sundry if DV tool depths vary by more than 100' from approved depth.

3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
- a. First stage to DV tool:
 - ☒ Cement to circulate. If cement does not circulate, contact the appropriate BLM office before proceeding with second stage cement job. Operator should have plans as to how they will achieve circulation on the next stage.
 - b. Second stage above first DV tool:
 - ☒ Cement to circulate. If cement does not circulate, contact the appropriate BLM office before proceeding with third stage cement job. Operator should have plans as to how they will achieve circulation on the next stage.
 - c. Third stage above second DV tool, cement shall:
 - ☒ Cement to circulate. 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.

C. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
2. Variance approved to use flex line from BOP to choke manifold. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. **Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review.** If the BLM inspector questions the straightness of the hose, a BLM engineer will be contacted and will review in the field or via picture supplied by inspector to determine if changes are required (operator shall expect delays if this occurs).
3. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M) psi. 5M system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.**
4. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time.
 - b. The tests shall be done by an independent service company utilizing a test plug **not a cup or J-packer.**
 - c. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock.
 - d. The results of the test shall be reported to the appropriate BLM office.
 - e. All tests are required to be recorded on a calibrated test chart. **A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.**

- f. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.

D. DRILL STEM TEST

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

E. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

WWI 021313