Form 3160-3 **August 1999**

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

OCD-ARTESIA

ATS-10-568 FORM APPROVED 1062 MAY 1 8 2010 NO. 1004-0136 Expires: November 30, 2000

APPLICATION FOR PERMIT TO D	DRILL OR REENTER	NMNM086024			
1a. Type of Work X DRILL R	EENTER D 111 DATRCU	6. If Indian, Allotee or Tribe Name			
1b. Type of Well	R-111-POTASH X Single Zone Multiple Zone	TILL CIA A			
2. Name of Operator		8. Lease Name and Well No. 3047			
OXY USA Inc.	(16696)	Cynress 34 Federal #6H			
Ba. Address	3b. Phone No. (include area code	e) 9. API Well No.			
P.O. Box 50250 Midland, TX 79710-0250	432-685-5717	30-015-38366/			
Location of Well (Report location clearly and in accordance with At surface 640 FNL 704 FWL (NWNW(D))	any State equirements)*	10. Field and Pool, or Exploratory 97/ Undsg, Nash Draw Delaware,			
At proposed prod. zone 100 At 600 FM SWS		11. Sec., T., R., M., or Blk. and Survey or Are			
75400 170L 3W3	SW(M)	Sec 34 T23S R29E			
4. Distance in miles and direction from nearest town or post office*		12. County or Parish 13. State			
6 miles northeast f	from Loving, NM	Eddy NM			
5. Distance from proposed*	16.No. of Acres in lease	17. Spacing Unit dedicated to this well			
location to nearest property or lease line, ft. (Also to nearest drg. unit line, if any)	640	160			
8. Distance from proposed location*	19. Proposed Depth	20.BLM/BIA Bond No. on file			
to nearest well, drilling, completed,	10705'M 6687.6'V				
applied for, on this lease, ft.	_10421'M 6687'V	ES0136			
H.F. C. C. L. D. V.D. D. C.		22.5 () 11 (
21. Elevations (Show whether DF, KDB, RT, GL, etc.	22. Approximate date work will start				
3045.6' GL	9/1/10	45			
 Well plat certified by a registered surveyor. A Drilling Plan A Surface Use Plan (if the location is on National Forest System I SUPO shall be filed with the appropriate Forest Service Office). 	Item 20 above). 5. Operator certification.	ons unless covered by an existing bond on file (see formation and/or plans as may be required by the			
25. Signuature	Name (Printed/Typed)	Date			
	David Stewart	5/12/12			
Title STAY	Davia Scewart	1 3 (12(18			
Sr. Regulatory Analyst					
Approved by (Signautre)/s/ Linda S.C. Rundell	Name (Printed/Typed)	Date NOV 2 2 2010			
STATE DIRECTOR	Office NM STATE O				
Application approval does not warrant or certify that the applicant he conduct operations thereon. Conditions of approval, if any, are attached.	olds legal or equitable title to those rights in the	he subject lease which would entitle the applicant to APPROVAL FOR TWO YEARS			
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make United States any false, fictitious or fraudulent statements or representations.		villfully to make to any department or agency of th			
(Instructions on Reverse)	y part feet	1/ (0/07/11			
Carlsbad Controlled Water Basin	DEC 0 9 2010 NMOCD ARTESIA	Karlo7/11			
700	NMOCD ARTESIA	APPROVAL SURIFCT TO			

SEE ATTACHED FOR CONDITIONS OF APPROVAL GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED Form 3160-5 (August 1999)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

ATS-10-568 FA-10-1062

Expires: November 30, 2000

5. Lease Serial No. SUNDRY NOTICES AND REPORTS ON WELLS NMNMOGO24

SUNDITE NOTICES	AND THE OTTO	ON WELLS		NMMM80UZ4	
Do not use this form for abandoned well. Use For				6. If Indian,	Allottee or Tribe Name
SUBMIT IN TRIPLICATE -	Other instructions	s on reverse side		7. If Unit or (CA/Agreement, Name and/or N
1. Type of Well X Oil Well Gas Well Other				8. Well Name Cypress 34	e and No. 4 Federa 1 #6H
2. Name of Operator OXY USA Inc.		16696			
3a. Address		3b. Phone No. (include ar	ea code)	9. API Well I	No.
P.O. Box 50250, Midland, TX 79710-	0250	432-685-5717		30-015- 10. Field and	Pool, or Exploratory Area
4. Location of Well (Footage, Sec., T., R., M., or Survey I	Description)				sh Draw Delaware,SW
	34 T23S R29E 34 T23S R29E			11. County o	r Parish, State
12. CHECK APPROPRIATE	BOX(ES) TO IN	DICATE NATURE OF I	NOTICE, REP	ORT, OR OT	HER DATA
TYPE OF SUBMISSION		TYF	PE OF ACTION		
X Notice of Intent Subsequent Report	Acidize Alter Casing	Deepen Fracture Treat	Reclamation		Water Shut-Off Well Integrity
Final Abandonment Notice	Casing Repair Change Plans Convert to Injecti	New Construction Plug and Abandon Plug Back	Recomple Temporari Water Dis	ly Abandon	X Other Move Surface Location
13. Describe Proposed or Completed Operation (clearly If the proposal is to deepen directionally or recomp Attach the Bond under which the work will be perfollowing completion of the involved operations. It testing has been completed. Final Abandonment Indetermined that the final site is ready for final inspection. At the request of the BLM, OXY US and the proposed bottomhole locat	olete horizontally, give softermed or provide the lift the operation results in Notices shall be filed or ection.) 6A Inc. moved the	subsurface locations and mea Bond No. on file with BLM/ in a multiple completion or re nly after all requirements, in- nle surface location	sured and true ver BIA. Required s ecompletion in a r cluding reclamati to the prop	rtical depths of a ubsequent report new interval, a H on, have been co	all pertinent markers and zones. ts shall be filed within 30 days form 3160-4 shall be filed once ompleted, and the operator has omhole location
Original Surface Location - 640 F Original PBHL - 400 FSL 600 FWL New Surface Location - 400 FSL 40 PBHL - 640 FNL 704 FWL NWNW(D)	SWSW(M)			RECE DEC 0 9	2010
Attachments - Amended Drilling Pl	lan C-102 Dlat	Proposed Direction			
Accomments Amended Diffing 11	idii, 6 102 i ide,	Troposed birection	ilai i laii, Li	JUGUTUN FTE	·
14. I hereby certify that the foregoing is true and correct Name (<i>PrintedTyped</i>)		Title		-7+	
David Stewart			egulatory An	a i y S L	
THIS THIS	S SDACE EOD EED	DERAL OR STATE OF	EICE LISE		
Approved by	J JEMUE FUR FEL	Title	TICE USE	To	Date
	e all constants				
Conditions of approval, if any, are attached. Approval certify that the applicant holds legal or equitable title to which would entitle the applicant to conduct operations the	those rights in the sub	varrant or Office ject lease			

Title 18 U.S.C. Section 1001, and Title 43 U.S.C. Section 1212, makes 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.

Attachment C-103 – Amended APD OXY USA Inc. Cypress 34 Federal #6H SL-400 FSL 400 FWL SWSW(M) Sec 34 T23S R29E BHL-640 FNL 704 FWL NWNW(D) Sec 34 T23S R29E Eddy County, NM

- **1.** Directions From Jal go west on SH 128 for 48.1 miles. Turn south on CR 793 (Rawhide Road) for 4.1 miles. Turn west on lease road for 3.5 miles, turn south for 1.9 miles, turn southwest for 0.3 miles, turn southeast on proposed road for 0.2 miles to location.
- 2. Blade and water existing road from CR 793 (Rawhide Road) to location and repair any bad areas of the existing road with caliche.
- **3.** Caliche for location and road will come from a caliche pit located in Sec 34 T23S R29E, Eddy County, NM.
- **4.** See attached for the proposed Well Site Layout, proposed facilities, road, flow line, and electric line, Exhibits #1A, 1B, 1C, 1D, 1E.
- **5.** See attached for vicinity and access route to the proposed location, Exhibits #2A, #2B, #2C, #2D.
- 6. One mile AOR map, see attached for Exhibit #3A, 3B
- 7. Schematic and description of BOP with required valves and choke lines, expanded view of flex hose routing and clamp location, see attached for Exhibit #4A, 4B, 4C, 4D.

DRILLING PROGRAM

Operator Name/Number:

OXY USA Inc.

16696

Lease Name/Number:

Cypress 34 Federal #6H

304799 Federal Lease No. NMNM086024

Pool Name/Number:

Undesignated Nash Draw Delaware, Southwest

97148

Surface Location:

640 FNL 704 FWL NWNW(D) Sec 34 T23S R29E

Bottom Hole Location: 400 FSL 600 FWL SWSW(M) Sec 34 T23S R29E

Proposed TD:

TVD 7775'

10630' TMD Elevation: 3045.6' GL

SL - Lat: 32.2667101

Long: 103.9783969

X=609709.0 Y=460928.3 NAD - 1927

BH - Lat: 32.2550075

Long: 103.9785592

X=609672.9 Y=456671.1

NAD - 1927

1. Geologic Name of Surface Formation:

a. Permian

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

Geological Marker	<u>Depth</u>	<u>Type</u>
Upper Permian Sand	170'	Water
Top Salt	550'	
Bottom Salt	2840'	
Delaware	3064'	Oil
Bell Canyon	3100'	Oil
Brushy Canyon	6500'	Oil
	Upper Permian Sand Top Salt Bottom Salt Delaware Bell Canyon	Upper Permian Sand 170' Top Salt 550' Bottom Salt 2840' Delaware 3064' Bell Canyon 3100'

3. Casing Program:

مامه

<u>Size</u>	interval	OD CSg	weight	Collar	Grade	Condition	Design Design	<u>Durst</u> <u>Design</u>	<u>Design</u>
<u> </u>							<u>Factor</u>	Factor	Factor
17-1/2"	550'	13-3/8"	48#	STC	H40.	New	3.07	6.18	1.96
12-1/4"	2970'	9-5/8"	40#	LTC	J55	New	3.43	1.31	2.13
8-1/2"	10630'M	5-1/2"	17#	LTC	N80	New	1.96	1.21	1.71
	DVT-5000'		•						
	DVT/ECP-302								
Collapse	and burst loads	s calculated	using Stres	s Check wit	h anticipate	ed loads			

Location Move

4. Cement Program

a. 13-3/8" Surface Circulate cement to Surface w/ 610sx PP w/ 4% Bentonite + .125#/sx Poly E Flake +

2% CaCl2, 13.5 ppg 1.75 yield

If cement is not circulated, the BLM will be notified, a temperature survey will be run and will be immediately followed by top jobs as necessary to circulate cement to surface.

b. 9-5/8"

Intermediate Circulate cement to surface w/ 731sx HES light PP w/ 5% salt + .125#/sx Poly E Flake +

5#/sx Gilsonite, 12.4ppg, 2.12 yield followed by 200sx PP w/ 1% CaCl2, 14.8ppg 1.34 yield

c. 5-1/2"

Production

1st stage-Cement w/ 1570sx Super H w/ .5% LAP-1 + .4% CFR-3 + .25#/sx D-AIR 3000 +

.3% HR-601, 13.2ppg 1.59 yield

2nd stage-Cement w/ 476sx IFC w/ .5% LAP-1 + .25#/sx D-AIR 3000 + .125#/sx Poly E Flake, 11.9ppg 2.43 yield followed by 100sx PP w/ 1% CaCl2, 14.8ppg 1.34 yield

3rd stage-Cement w/ 362sx IFC w/ .5% LAP-1 + .25#/sx D-AIR 1 1.9ppg 262 yield 2.43 per hmen

followed by 100sx PP w/ 2% CaCl2 14.8ppg 1.35 yield

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

5. Pressure Control Equipment:

Surface 0-550'

None

Production 550-10421'

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

SEE COA All BOP's and associated equipment will be tested to 1200ps with a third party BOP testing service before drilling out the 13-3/8" casing shoe. Prior to drilling out the 9-5/8" casing shoe, the BOP's and Annular preventer will be tested in accordance with On-shore Order #2.

Pipe Rams will be operated and checked each 24-hour period and each time the drill pipe is out of the hole. These functional tests will be documented on the daily driller's log. A 2" kill line and 3" choke line will be incorporated in the drilling spool below the ram-type BOP. Other accessory BOP equipment will include a Kelly cock, floor safety valve, choke lines and choke manifold having a 5000 psi WP rating. OXY requests that the entire system be tested as a 5000psi WP rating.

See COA

Request variance to connect BOP choke outlet to the choke manifold a co-flex hose that is manufactured by Contitech Rubber Industrial KFT. It is a 3" ID X 35' flexible hose rated to 10000psi working pressure. It has been tested to 15000psi and is built to API Spec 16C. Once the flex line is installed, it will be tied down with safety clamps, certification attached.

6. Proposed Mud Circulation System

<u>Depth</u>	<u>Mud Wt.</u>	<u>Visc</u>	<u>Fluid</u>	Type System
	ppg	sec	Loss	
0-550'	8.4-8.9	32-34	NC	Fresh Water/MI Gel Spud Mud
550-3070	9.8-10.0	28-29	NC	Brine Water
3070-6300'	8.8-9.0	28-29	NC	Fresh Water
6300'-TD	9.0-9.8	32-36	10-15	Duo Vis/Poly Pac R

Pump high viscisity 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.

7. Auxiliary Well Control and Monitoring Equipment:

- a. A Kelly cock will be in the drill string at all times.
- b. A full opening drill pipe stabbing valve having the appropriate connections will be on the rig floor at all times.
- c. Hydrogen Sulfide detection equipment will be in operation after drilling out the surface casing shoe until the production casing is cemented. Breathing equipment will be on location upon drilling the surface casing shoe until total depth is reached.

Drilling Program 2

8. Logging, Coring and Testing Program:

- a. Drill stem tests are not anticipated but if done will be based on geological sample shows.
- b. The open hole logging program will consist of LWD Gamma Ray from kick-off to TD.
- c. No coring program is planned but if done will be sidewall rotary cores.
- d. Mud loggers are currently planned from intermediate casing point to landing point.

9. Potential Hazards:

No abnormal pressures, temperatures or H_2S gas are expected. The highest anticipated pressure gradient would be .47 psi/ft or 3200psi. If H_2S is encountered the operator will comply with the provisions of Onshore Oil & Gas Order No.6. No lost circulation is expected to occur. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. Adequate flare lines will be installed off the mud/gas separator where gas may be flared safely.

10. Anticipated Starting Date and Duration of Operations:

Road and location construction will begin after the BLM has approved the APD. Anticipated spud date will be as soon as possible after BLM approval and as soon as a rig will be available. Move in operations and drilling is expected to take 45 days. If production casing is run, then an additional 30 days will be needed to complete the well and construct surface facilities and/or lay flow lines in order to place well on production.

Cypress 34 Federal #6H - Attachment

2. **CASING PROGRAM:**

K	See	0	A
-7.2		_	٠, ١

Surface C	asing: 13	3.375" casi	ng set at ±	550'MD/550	0'TVD in a 1	7.5" hole fille	ed with 8.8 p	og mud				
					Coll	Burst						
Į					Rating	Rating	Jt Str	ID	Drift	SF	SF	SF
Interval	Length	Wt	Gr	Cplg	(psi)	(psi)	(M-lbs)	(in)	(in)	Coll	Burst	_ Ten
0'-550'	550'	48#	H-40	ST&C	770	1730	322	12.715	12.559	3.07	6.18	1.96

_	Surface C	Casing: 9.6	625" casin	g set at ±3	070'MD/30	70'TVD in a	12.25" hole	filled with 10.					
Ì		T				Coll	Burst	1					
]	Ì	Rating	Rating	Jt Str	ID	Drift	SF	SF	SF
ı	Interval	Length	Wt	Gr	Cplg	(psi)	(psi)	(M-lbs)	(in)	(in)	Coll	Burst	Ten
	0'-3070'	3070'	40#	J-55	LT&C	2570	3950	520	8,835	8,679	3.43	1.31	2.13

Productio Productio	n Casing: 5.5	5" casing s	et at ±104	21'MD/668	7'TVD in a 8	3.5" hole filled	d with 9.20 pp	og mud.				
	1				Coll	Burst				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
			Ì		Rating	Rating	Jt Str	ID	Drift	SF	SF	SF
Interval	Length_	Wt	Gr	Cplg	(psi)	(psi)	(M-lbs)	(in)	(in)	Coll	Burst	Ten
0'-10421'	10,421	17#	N-80	LT&C	6280	7740	348	4.892	4.767	1.96	1.21	1.71

Collapse and burst loads calculated using StressCheck with actual anticipated loads.

LOCATION Chg Per Sundry

3. CEMENT PROGRAM:

Surface Interval

Interval	Amount sx	Ft of Fill	Туре	Gal/Sk	PPG	Ft³/sk	24 Hr Comp
Surface (TOC: 0'	<u>– 550')</u>						
Lead: 0' - 1 550 (165% Excess)	610	550'	Premium Plus Cement, with 4% Bentonite, 2% Calcium Chloride, & 0.125 lb/sk Poly-E-Flake	9.18	13.5	1.75	985 psi

See COA Intermediate Interval

Interval	Amount sx	Ft of Fill	Туре	Gal/Sk	PPG	Ft³/sk	24 Hr Comp
Intermediate (TO	C: 0' – 3070')						
Lead: 0' 2674' (100% Excess)	731	2674'	Light Premium Plus Cement, with 5% Salt, 5 lb/sk Gilsonite, & 0.125 lb/sk Poly-E-Flake	11.09	12.4	2.10	511 psi
Tail: 2624' –3070' (100% Excess)	200	396'	Premium Plus cement with 1% Calcium Chloride	6.36	14.8	1.34	2125 psi

See COA - Location Chy Per Sundry **Production Interval** Amount PPG Gal/Sk Ft³/sk Interval 24 Hr Comp Fill SX Production (TOC: 5000') 1st Stage Lead: Super H Cement with 0.5% LAP-1 (Low Fluid 5000' -10,421' Loss Control), 0.4% CFR-3 (Dispersant), 0.25 1570 5421' 8.28 13.2 1.59 1650 psi (100% Excess) lb/sk D-AIR 3000 (Defoamer), & 0.2% HR-601 (Retarder) DV Tool @ 5,000' Production (TOC: 3120') 2nd Stage Lead: Interfill C with 0.5% LAP-1 (Low Fluid Loss Control), 0.125 lb/sk Poly-E-Flake (Lost 3120' -4806' 476 1686' 13.84 11.9 2.43 290 psi (200% Excess) Circulation Additive), & 0.25 lb/sk D-AIR 3000 (Defoamer) Tail: 4806' -5000' 100 194' Premium Plus cement with 1% Calcium Chloride 6.36 14.8 1.34 2100 psi (200% Excess) Pack-Off Stage Tool @ 3,120' Production (TOC: Surface) 3rd Stage Lead: 0' -2744' Interfill C with 0.5% LAP-1 (Low Fluid Loss 362 2744' 13.86 11.9 2.43 240 psi (25% Excess of Control) & 0.25 lb/sk D-AIR 3000 (Defoamer). Annular Volume) Tail: 2744'-3120' 100 376' Premium Plus cement with 2% Calcium Chloride 6.39 14.8 1.35 1980 psi (25% Excess of Annular Volume)

New PLAN 10/7/10

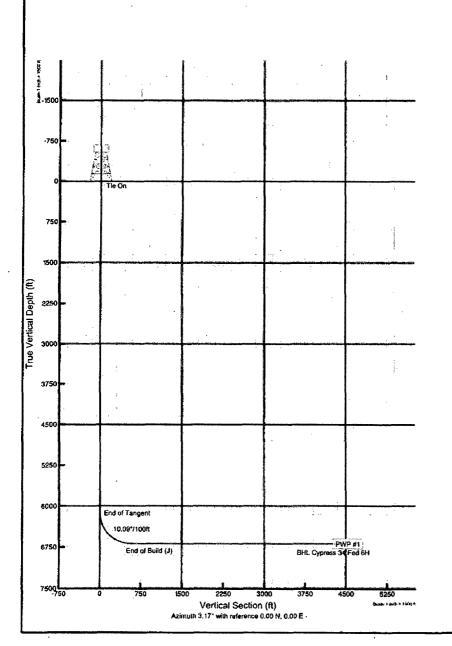


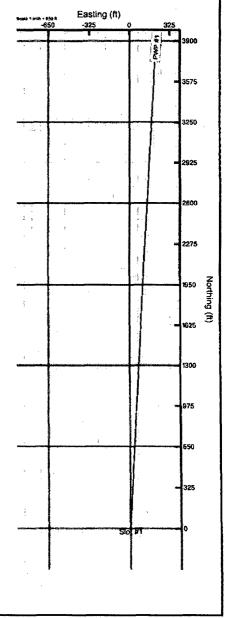
OXY Permian

Location: Acadia Parish Field: (Cypress) Sec 34 Facility: Cypress 34 Fed. 6H Slot: Slot #1 Well: Cypress 34 Fed. 6H Wellbore: PWP #1 BAKER HUGHES INTEQ

Pico soforence wellcom is PYSF 31 jours							
True ventical departe are references to PGs on Stet 91 (P(T))	Grid System, NAD27 / TIA New Mexico State Planes, Eastern Zone (3001), US feet						
Measured depths are referenced to Rig on Sion #1 (RT)	Hosts Reference: Gris north						
Rig an Skil \$1 (RT) to Major San Lavet 3061 1 fool	Grade: Frue Getarics						
Mean Sea Level to Mustone (Facety: Cypress 34 Fed, \$41): -3034 6 feet	Depitus are in foet						
Cognitivates are in fact rate sented to Stat	Created by: Ournitrati on 10/1/2010						

	Well Profile Data										
Design Comment	Design Comment MD (ft) Inc (*) Az (*) TVD (ft) Local N (ft) Local E (ft) DLS (*/100ft) VS (ft)										
Tie On	0.00	0.000	3.174	0.00	0.00	0.00	0.00	0.00			
End of Tangent	6120.00	0.000	3.174	6120.00	0.00	0.00	0.00	0.00			
End of Build (J)	7011.58	90.000	3.174	6687.60	566.73	31.43	10.09	567.60			
End of Tangent (J)	10708.06	90.000	3.174	6687.60	4257.54	236.12	0.00	4264.08			







Planned Wellpath Report PWP #1_pwp Page 1 of 4



REBERI	ENCENTERPARTIDENTIFICATION CONTROL		
Operator	OXY Permian	Slot	Slot #1
Area	Acadia Parish	Well	Cypress 34 Fed. 6H
Field	(Cypress) Sec 34	Wellbore	PWP #1
Facility	Cypress 34 Fed. 6H		

REPORT SETUPA	NEORMATION		
Projection System	NAD27 / TM New Mexico State Planes, Eastern Zone (3001), US	Software System	WellArchitect® 2.0
	[feet		
North Reference	Grid	User	Dumirazi
Scale	0.999923	Report Generated	10/1/2010 at 12:18:36 PM
Convergence at slot	0.19° East	Database/Source file	WellArchitectDB/PWP_#1.xml

WEELBATH LOCATION										
	Local coordinates		Grid co	ordinates	Geographic coordinates					
	North[ft]	East[ft]	Easting[USft]	Northing[USft]	Latitude	Longitude				
Slot Location	0.00	0.00	609472.90	456671.10	32°15'18.034"N	103°58'45.143"W				
Facility Reference Pt			609472.90	456671.10	32°15'18.034"N	103°58'45.143"W				
Field Reference Pt			609472.90	456671.10	32°15'18.034"N	103°58'45.143"W				

MELLIPATH DATUM			
Calculation method	Minimum curvature	Rig on Slot #1 (RT) to Facility Vertical Datum	16.50ft
Horizontal Reference Pt	Slot	Rig on Slot #1 (RT) to Mean Sea Level	3051.10ft
Vertical Reference Pt	Rig on Slot #1 (RT)	Facility Vertical Datum to Mud Line (Facility)	0.00ft
MD Reference Pt	Rig on Slot #1 (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	3.17°



Planned Wellpath Report PWP #1_pwp Page 2 of 4



REFERE	NGEWEEEPARTIDENTIFICATION		
Operator	OXY Permian	Slot	Slot #1
Area	Acadia Parish	Well	Cypress 34 Fed. 6H
Field	(Cypress) Sec 34	Wellbore	PWP #1
Facility	Cypress 34 Fed. 6H		

MD [n]	inclination	Azimuth °	TVD [R]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [%100ft]
0.00	0.000	3.174	0.00	0.00	0.00	0.00	32°15'18.034"N	103°58'45.143"W	0.00
100.00†	0.000	3.174	100.00	0.00	0.00	0.00	32°15'18.034"N	103°58'45.143"W	0.00
200.00†	0.000	3.174	200.00	0.00	0.00	0.00	32°15'18.034"N	103°58'45.143"W	0.00
300.001	0.000	3.174	300.00	0.00	0.00	0.00	32°15'18.034"N	103°58'45.143"W	0.00
400.001	0.000	3 174	400.00	0.00	0.00	0.00	32°15'18'034"N	[03°58'45 143"W	0.00
500.00†	0.000	3.174	500.00	0.00	0.00	0.00	32°15'18.034"N	103°58'45.143"W	0.00
600.00†	0.000	3.174	600.00	0.00	0.00	0.00	32°15'18.034"N	103°58'45.143"W	0.00
700.00†	0.000	3.174	700.00	0.00	0.00	0.00	32°15'18.034"N	103°58'45.143"W	0.00
800.00†	0.000	3.174	800.00	0.00	0.00	0.00	32°15'18.034"N	103°58'45.143"W	0.00
900.001	0.000	3 174	900.00	0.00	0.00	0.00	32°15'18.034"N	10355845 143°W	0.00
1000.00†	0.000	3.174	1000.00	0.00	0.00	0.00	32°15'18.034"N	103°58'45.143"W	0.00
1100.00†	0.000	3.174	1100.00	0.00	0.00	0.00	32°15'18.034"N	103°58'45.143"W	0.00
1200.00†	0.000	3.174	1200.00	0.00	0.00	0.00	32°15'18.034"N	103°58'45.143"W	0.00
1300.00†	0.000	3.174	1300.00	0.00	0.00	0.00	32°15'18.034"N	103°58'45.143"W	0.00
1400.00	0.000	3.174	1400.00	0.00	0.00	0.00	32°15'18'034"N	103°58'451143".Wi	0.00
1500.00†	0.000	3.174	1500.00	0.00	0.00	0.00	32°15'18.034"N	103°58'45.143"W	0.00
1600.00†	0.000	3.174	1600.00	0.00	0.00	0.00	32°15'18.034"N	103°58'45.143"W	0.00
1700.00†	0.000	3.174	1700.00	0.00	0.00	0.00	32°15'18.034"N	103°58'45.143"W	0.00
1800.00†	0.000	3.174	1800.00	0.00	0.00	0.00	32°15'18.034"N	103°58'45.143"W	0.00
1900.006	0.000	3/174	1200.00	0.00	0.00	0.00	32°15'18.034"N	103958'45'143"W	0,00
2000.00†	0.000	3.174	2000.00	0.00	0.00	0.00	32°15'18.034"N	103°58'45.143"W	0.00
2100.00†	0.000	3.174	2100.00	0.00	0.00	0.00	32°15'18.034"N	103°58'45.143"W	0.00
2200.00†	0.000	3.174	2200.00	0.00	0.00	0.00	32°15'18.034"N	103°58'45.143"W	0.00
2300.00†	0.000	3.174	2300.00	0.00	0.00	0.00	32°15'18.034"N	103°58'45.143"W	0.00
2400.001	0.000		2400,00	0.00	0.00	0.00	32915:18:034TN	103258454143!!W	0.00
2500.00†	0.000	3.174	2500.00	0.00	0.00	0.00	32°15'18.034"N	103°58'45.143"W	0.00
2600.00†	0.000	3.174	2600.00	0.00	0.00	0.00	32°15'18.034"N	103°58'45.143"W	0.00
2700.00†	0.000	3.174	2700.00	0.00	0.00	0.00	32°15'18.034"N	103°58'45.143"W	0.00
2800.00†	0.000	3.174	2800.00	0.00	0.00	0.00	32°15'18.034"N	103°58'45.143"W	0.00
2900.00f	0.000	.3.174	2900.00	0.00	0,00	0.00	32215.18.034"N	103°58'45 143"W	0,00
3000.00†	0.000	3.174	3000.00	0.00	0.00	0.00	32°15'18.034"N	103°58'45.143"W	0.00
3100.00†	0.000	3.174	3100.00	0.00	0.00	0.00	32°15'18.034"N	103°58'45.143"W	0.00
3200.00†	0.000	3.174	3200.00	0.00	0.00	0.00	32°15'18.034"N	103°58'45.143"W	0.00
3300.00†	0.000	3.174	3300.00	0.00	0.00	0.00	32°15'18.034"N	103°58'45.143"W	0.00
3400,001	0.000	C. C	3400.00	0.00	,	0.00	32°15'(8:034"N	103°58'45'143''W	0.00
3500.00†	0.000	3.174	3500.00	0.00	0.00	0.00	32°15'18.034"N	103°58'45.143"W	0.00
3600.00†	0.000	3.174	3600.00	0.00	0.00	0.00	32°15'18.034"N	103°58'45.143"W	0.00
3700.00†	0.000	3.174	3700.00	0.00	0.00	0.00	32°15'18.034"N	103°58'45.143"W	0.00
3800.00†	0.000	3.174	3800.00	0.00	0.00	0.00	32°15'18.034"N	103°58'45.143"W	0.00
3900.00f	0.000	3,174	mention demands measure endages of	0,00	0.00	0.00			0.00
4000.00†	0.000	3.174	4000.00	0.00	0.00	0.00	32°15'18.034"N	103°58'45.143"W	0.00
4100.00†	0.000	3.174	4100.00	0.00	0.00	0.00	32°15'18.034"N	103°58'45.143"W	0.00
4200.00†	0.000	3.174	4200.00	0.00	0.00	0.00	32°15'18.034"N	103°58'45.143"W	0.00
4300.00†	0.000	3.174	4300.00	0.00	0.00	0.00	32°15′18.034″N	103°58'45.143"W	0.00
4400,001	5 0.000	3.174	4400.00	0.00	0.00	0.00	32°15'18.034"N	10325845 143"W	0.0



Planned Wellpath Report PWP #1_pwp Page 3 of 4



RIEFER	NEFAVEREPATHRIDENTIFICATION (# 1945)		
Operator	OXY Permian	Slot	Slot #1
Area	Acadia Parish	Well	Cypress 34 Fed. 6H
Field	(Cypress) Sec 34	Wellbore	PWP #1
Facility	Cypress 34 Fed. 6H		

MD	H DATA (11)	Azimuth	TVD	Vert Sect	North	East	Latitude	I Annih da	DLS
MD [ft]	[o]	Azimuta °	iti	vert Sect [ft]	ifti	East (ft)	Lattrage	Longitude	[%100ft]
4500.00t	0.000	3.174	manuscripture de la companya della companya de la companya della c	0.00	0.00	0.00	32°15'18.034"N	103°58'45.143"W	0.00
4600.00†	0.000	3,174	4600.00	0.00	0.00	0.00	32°15'18.034"N	103°58'45.143"W	0.00
4700.00†	0.000	3.174	4700.00	0.00	0.00	0.00	32°15'18.034"N	103°58'45.143"W	0.00
4800.00†	0.000	3.174	4800.00	0.00	0.00	0.00	32°15'18.034"N	103°58'45.143"W	0.00
4900.001	0.000	3:174		0.00	0.00	0.00	32°15'18.034"N	103°58'45 143°W	0.00
5000.00†	0.000	3.174	5000.00	0.00	0.00	0.00	32°15'18.034"N	103°58'45.143"W	0.00
5100.00†	0.000	3.174	5100.00	0.00	0.00	0.00	32°15'18.034"N	103°58'45.143"W	0.00
5200.00†	0.000	3.174	5200.00	0.00	0.00	0.00	32°15'18.034"N	103°58'45.143"W	0.00
5300.00†	0.000	3.174	5300.00	0.00	0.00	0.00	32°15'18.034"N	103°58′45.143"W	0.00
5400.001	0.000	3:174	5400.00	0.00	0.00	0.00	32°15'18.034"N	(03°58'45:143"W	0.00
5500.00†	0.000	3.174	5500.00	0.00	0.00	0.00	32°15'18.034"N	103°58'45.143"W	0.00
5600.00†	0.000	3.174	5600.00	0.00	0.00	0.00	32°15'18.034"N	103°58'45.143"W	0.00
5700.00†	0.000	3.174	5700.00	0.00	0.00	0.00	32°15'18.034"N	103°58'45.143"W	0.00
5800.00†	0.000	3.174	5800.00	0.00	0.00	0.00	32°15'18.034"N	103°58'45.143"W	0.00
5900.001	0.000	3,174	5900.00	0.00	0.00	0.00	32°15'18'034"N	103°58'45'1'43"W	0.00
6000.00†	0.000	3.174	6000.00	0.00	0.00	0.00	32°15'18.034"N	103°58'45.143"W	0.00
6100.00†	0.000	3.174	6100.00	0.00	0.00	0.00	32°15'18.034"N	103°58'45.143"W	0.00
6120.00	0.000	3.174	6120.00	0.00	0.00	0.00	32°15'18.034"N	103°58'45.143"W	0.00
6200.00†	8.076	3.174	6199.74	5.63	5.62	0.31	32°15'18.090"N	103°58'45.139"W	10.09
6300.00±	18,170	3.174	6297.00	28.30	28.26	157	32°15'18'314'N	10395845 1235W	10.09
6400.00†	28.264	3.174	6388.78	67.67	67.57	3.75	32°15'18.703"N	103°58'45.096"W	10.09
6500.00†	38.359	3.174	6472.24	122.52	122.33	6.78	32°15'19.244"N	103°58'45.059"W	10.09
6600.00†	48.453	3.174	6544.80	191.15	190.86	10.58	32°15'19.922"N	103°58'45.012"W	10.09
6700.00†	58.547	3.174	6604.20	271.43	271.01	15.03	32°15'20.715"N	103°58'44.957"W	10.09
6800.00f	68.642	3.174	6648,62	360.88	360 33	#19.98	329151211599"N	103°58'44 896°W	10.09
6900.00†	78.736	3.174	6676.67	456.73	456.03	25.29	32°15'22.546"N	103°58'44.831"W	10.09
7000.00†	88.831	3.174	6687.48	556.02	555.16	30.79	32°15'23.527"N	103°58'44.763"W	10.09
7011.58	90.000	3.174	6687.60	567.60	566.73	31.43	32°15'23.641"N	103°58'44.755"W	10.09
7100.00†	90.000	3.174	6687.60	656.02	655.01	36.33	32°15'24.514"N	103°58'44.694"W	0.00
7200.00t	90,000	3:174	6687.60	756.02	754.86	41.86	32°15'25.502"N	103°58'44.626"W	0.00
7300.00†	90.000	3.174	6687.60	856.02	854.70	47.40	32°15'26.490"N	103°58'44.558"W	0.00
7400.00†	90.000	3.174	6687.60	956.02	954.55	52.94	32°15'27.478"N	103°58'44.489"W	0.00
7500.00†	90.000	3.174	6687.60	1056.02	1054.40	58.48	32°15'28.466"N	103°58'44.421"W	0.00
7600.00†	90.000	3.174	6687.60	1156.02	1154.24	64.01	32°15'29.454"N	103°58'44.353"W	0.00
7700,00t	90.000	3.174	6687,60	1256,02	1254.09	69.55	32°15'30'441"N	103°58'44'285"W	0.00
7800.00†	90.000	3.174	6687.60	1356.02	. 1353,94	75.09	32°15'31.429"N	103°58'44.216"W	0.00
7900.00†	90.000	3.174	6687.60	1456.02	1453.78	80.63	32°15'32.417"N	103°58'44.148"W	0.00
8000.00†	90.000	3.174	6687.60	1556.02	1553.63	86.16	32°15'33.405"N	103°58'44.080"W	0.00
8100.00†	90.000	3.174	6687.60	1656.02	1653.48	91.70	32°15'34.393"N	103°58'44.011"W	0.00
8200,001	90,000	3.174	**** *** ****** ********* ********		The same of the sa	grows were a second of the second with		Company and I was prove the property and the second	0.00
8300.00†	90.000	3.174	6687.60	1856.02	1853,17	102.77	32°15'36.369"N	103°58'43.875"W	0.00
8400.00†	90.000	3.174	6687.60	1956.02	1953.01	108.31	32°15'37.356"N	103°58'43.806"W	0.00
8500.00†	90.000	3.174	6687.60	2056.02	2052.86	113.85	32°15'38.344"N	103°58'43.738"W	0.00
8600.00†	90.000	3.174	6687.60	2156.02	2152.71	119.39	32°15'39.332"N	103°58'43.670"W	0.00
8700 001	90.000	3,174	6687:60	2256.02	2252 55	124.92	32°15'40.320°N	103°58'43.601"W	0.00



Planned Wellpath Report PWP #1_pwp Page 4 of 4



REFER	ENGEWELLPATH IDENTIFICATION		
Operator	OXY Permian	Slot	Slot #1
Area	Acadia Parish	Well	Cypress 34 Fed. 6H
Field	(Cypress) Sec 34	Wellbore	PWP #1
Facility	Cypress 34 Fed. 6H		

WELLPATH	I DATA (111	stations)	† = interpo	lated/extra	polated sta	ition			
MD [ft]	inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect	North [ft]	East [ft]	Latitude	Longitude	DLS [%100ft]
8800.00†	90.000	3.174	6687.60	2356.02	2352.40	130.46	32°15'41.308"N	103°58'43.533"W	0.00
8900.00†	90.000	3.174	6687.60	2456.02	2452.25	136.00	32°15'42.296"N	103°58'43.465"W	0.00
9000.00†	90.000	3.174	6687.60	2556.02	2552.09	141.54	32°15'43.283"N	103°58′43.396″W	0.00
9100.00†	90.000	3.174	6687.60	2656.02	2651.94	147.07	32°15'44.271"N	103°58'43.328"W	0.00
9200.00 1	90.000	3 174	6687.60	2756.02	2751.79	152 61	32°15'45'259'N	103°58'43'260"W	0.00
9300.00†	90.000	3.174	6687.60	2856.02	2851.63	158.15	32°15'46.247"N	103°58'43.191"W	0.00
9400.00†	90.000	3.174	6687.60	2956.02	2951.48	163.69	32°15'47.235"N	103*58'43.123"W	0.00
9500.00†	90.000	3.174	6687.60	3056.02	3051.33	169.22	32°15'48.223"N	103°58'43.055"W	0.00
9600.00†	90.000	3.174	6687.60	3156.02	3151.17	174.76	32°15'49.210"N	103°58'42.986"W	0.00
9700.001	90.000	3 174	6687.60	3256.02	3251 02	180 30	32°15'50.198'N	103°58'42.918"W	0.00
9800.00†	90.000	3.174	6687.60	3356.02	3350.87	185.84	32°15'51,186"N	103°58'42.850"W	0.00
9900.00†	90.000	3.174	6687.60	3456.02	3450.71	191.37	32°15'52.174"N	103°58'42.781"W	0.00
10000.00†	90.000	3.174	6687.60	3556.02	3550.56	196.91	32°15'53.162"N	103°58'42.713"W	0.00
10100.00†	90.000	3.174	6687.60	3656.02	3650.41	202.45	32°15'54.150"N	103°58'42.645"W	0.00
10200.005	90,000	3.174	6687.60	3756.02	3750.25	207.99	32°15'55'137"N	103°58'42.576"W	0:00
10300.00†	90.000	3.174	6687.60	3856.02	3850.10	213.52	32°15'56.125"N	103°58'42.508"W	0.00
10400.00†	90.000	3.174	6687.60	3956.02	3949.95	219.06	32°15'57.113"N	103°58'42.440"W	0.00
10500.00†	90.000	3.174	6687.60	4056.02	4049.79	224.60	32°15'58.101"N	103°58'42.371"W	0.00
10600.00†	90.000	3.174	6687.60	4156.02	4149.64	230.13	32°15'59.089"N	103°58'42.303"W	0.00
10700,001	90.000	3 174	6687.60	4256.02	4249.49	235,67	32°16'00 077"N	103°58'42 235°W	0.00
10708.06	90.000	3.174	6687,60 ¹	4264.08	4257.54	236.12	32°16'00.156"N	103°58'42.229"W	0.00

TARGETS			STAR S	1 1 2 2 3 1 3 2		y Market			
Name	MD [ft]	TVD [ft]	North [ft]	East (ft)	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
1) BHL Cypress 34 Fed 6H	10708.06	6687.60	4257.54	236.12	609709.00	460928.30	32º16'00:156"N	%[103°58'42:229"W	point



Project: Eddy County, NM
Site: Cypress 34 Fed.
Well: Well #6H
Wellbore: OH
Plan: Plan #2 (Well #6H/OH)



True North: -0.19° Magnetic North: 7.74°

Magnetic Field Strength: 48724.4snT Dip Angle: 60.18° Date: 2010/03/10 Model: IGRI



WELL DETAILS: Well #6H

Ground Elevation: 3045.60

RKB Elevation: RKB to MSL @ 3070.60ft (H&P 370)

Rig Name: H&P 370

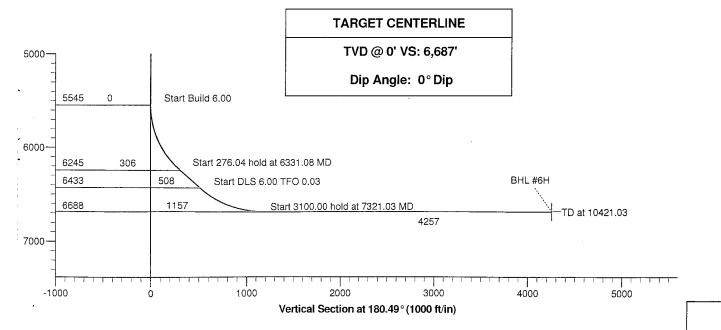
		8				
+N/-S	+E/-W	Northing	Easting	Latittude	Longitude	Slot
0.00	0.00	460928.30	609709.00	32° 16' 0.15621 N	103° 58' 42.22923 W	

SECTION DETAILS

Sec	: MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	5545.00	0.00	0.00	5545.00	0.00	0.00	0.00	0.00	0.00	
3	6331.08	47.17	180.47	6245.26	-305.67	-2.49	6.00	180.47	305.68	
4	6607.12	47.17	180.47	6432.94	-508.09	-4.14	0.00	0.00	508.11	
5	7321.03	90.00	180.49	6687.60	-1157.31	-9.59	6.00	0.03	1157.35	
6	10421.03	90.00	180.49	6687.60	-4257.20	-36.10	0.00	0.00	4257.35	BHL #6H

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
BHL #6H	6687.60	-4257.20	-36.10	456671.10	609672.90	Point



PROJECT DETAILS: Eddy County, NM

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)

Ellipsoid: Clarke 1866

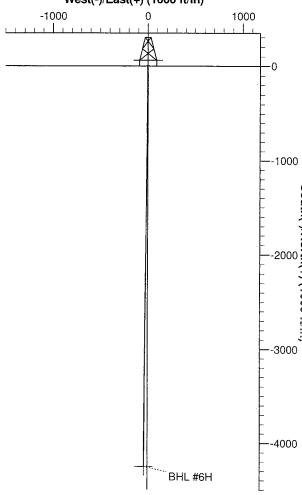
Zone: New Mexico East 3001

Magnetic Model: IGRF2010

System Datum: Mean Sea Level

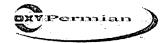
Local North: Grid

West(-)/East(+) (1000 ft/in)



Plan: Plan #2 (Well #6H/OH)

Created By: Kurt Otto Date: 9:43, March 10 2010



PathFinder Standard X&Y Report



Company: OXY Permian

Project: Eddy County, NM Site: Cypress 34 Fed."

Well: Well #6H OH Wellbore Design:

Well Well #6H RKB to MSL @ 3070.60ft (H&P 370) TVD Reference: RKB to MSL @ 3070.60ft (H&P 370) MD Reference: Grid:

North Reference:

Survey Calculation Method: Minimum Curvature Landmark Network DB

Project Eddy County: NM

Map System: US State Plane 1927 (Exact solution)

NAD 1927 (NADCON CONUS) Geo Datum:

System Datum: Mean Sea Level

Map Zone: New Mexico East 3001

Well:#6H

+N/-S

Site Position: From:

Well Position

Map

Northing: Easting:

Northing:

460,928.30 ft 609,709.00 ft

460,928.30 ft

Latitude: Longitude:

32° 16' 0.15621 N 103° 58' 42.22923 W

Position Uncertainty:

0.00 ft

0.00 ft

Slot Radius:

Grid Convergence:

Latitude:

32° 16' 0.15621 N

3,045.60 ft

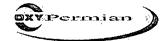
0.19°

+E/-W 0.00 ft 609,709.00 ft Easting: Longitude: 103° 58' 42.22923 W **Position Uncertainty** 0.00 ft Wellhead Elevation: **Ground Level:**

Declination Dip Angle Model Name Field Strength (nT) IGRF2010 2010/03/10 7.93 48,724 60.18

Audit Notes: Version: Phase: PLAN Tie On Depth: 0.00 Vertical Section: Depth From (TVD) Direction (°) 0.00 0.00 0.00 180.49

Survey Tool Program Date 2010/03/10 Description (ft) Survey (Wellbore) 10,421.03 Plan #2 (OH) MWD MWD - Standard



PathFinder Standard X&Y Report

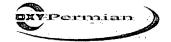


Local Co-ordinate Reference:

Company: OXY Permian
Project: Eddy County, NM
Site: Cypress 34 Fed
Well: Well #6H
Wellbore: OH
Design: Plan:#2 Well Well #6H TVD Reference RKB to MSL @ 3070.60ft (H&P 370) MD Reference: RKB to MSL @ 3070.60ft (H&P.370)

North Reference: Grid Survey Calculation Method: Minimum Curvature Landmark Network DB Database:

MD	lnc	Āzi	TVD	TVDSS	V: Sec	N/S	EW	DLeg	
		AZI (°)					(ft)		
5,545.00	0.00	0.00	5,545.00	-2,474.40	0.00	0.00	0.00	0.00	with a layer and the control of the
5,550.00	0.30	180.47	5,550.00	-2,479.40	0.01	-0.01	0.00	6.00	
5,600.00	3.30	180.47	5,599.97	-2,529.37	1.58	-1.58	-0.01	6.00	
5,650.00	6.30	180.47	5,649.79	-2,579.19	5.77	-5.77	-0.05	6.00	
5,700.00	9.30	180.47	5,699.32	-2,628.72	12.55	-12.55	-0.10	6.00	
5,750.00	12.30	180.47	5,748.43	-2,677.83	21.92	-21.92	-0.18	6.00	
5,800.00	15.30	180.47	5,796.98	-2,726.38	33.85	-33.84	-0.28	6.00	
5,850.00	18.30	180.47	5,844.84	-2,774.24	48.30	-48.29	-0.39	6.00	
5,900.00	21.30	180.47	5,891.88	-2,821.28	65.23	-65.23	-0.53	6.00	
5,950.00	24.30	180.47	5,937.97	-2,867.37	84.60	-84.60	-0.69	6.00	
6,000.00	27.30	180.47	5,982.98	-2,912.38	106.36	-106.36	-0.87	6.00	
6,050.00	30.30	180.47	6,026.79	-2,956.19	130.45	-130.44	-1.06	6.00	
6,100.00	33.30	180.47	6,069.28	-2,998.68	156.79	-156.79	-1.28	6.00	
6,150.00	36.30	180.47	6,110.33	-3,039.73	185.33	-185.32	-1.51	6.00	
6,200.00	39.30	180.47	6,149.83	-3,079.23	215.97	-215.96	-1.76	6.00	
6,250.00	42.30	180.47	6,187.68	-3,117.08	248.63	-248.63	-2.03	6.00	
6,300.00	45.30	180.47	6,223.76	-3,153.16	283.24	-283.23	-2.31	6.00	
6,331.08	47.17	180.47	6,245.26	-3,174.66	305.68	-305.67	-2.49	6.00	
6,400.00	47.17	180.47	6,292.12	-3,221.52	356.22	-356.21	-2.91	0.00	
6,500.00	47.17	180.47	6,360.11	-3,289.51	429.55	-429.54	-3.50	0.00	
6,607.12	47.17	180.47	6,432.94	-3,362.34	508.11	-508.09	-4.14	0.00	
6,650.00	49.74	180.47	6,461.37	-3,390.77	540.20	-540.18	-4.41	6.00	
6,700.00	52.74	180.47	6,492.67	-3,422.07	579.18	-579.16	-4.73	6.00	
6,750.00	55.74	180.47	6,521.89	-3,451.29	619.75	-619.73	-5.06	6.00	
6,800.00	58.74	180.48	6,548.95	-3,478.35	661.79	-661.77	-5.41	6.00	
6,850.00	61.74	180.48	6,573.76	-3,503.16	705.19	-705.16	-5.77	6.00	
6,900.00	64.74	180.48	6,596.28	-3,525.68	749.83	-749.80	-6.14	6.00	



PathFinder Standard X&Y Report



Company OXY Permian
Project: Eddy County, NM

Site Cypress 34 Fed. Well #6H Wellbore OH Design: Plan #2 Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference: Well Well#6H RKB to MSL @ 3070

RKB to MSL @ 3070 60ft (H&P 370) RKB to MSL @ 3070 60ft (H&P 370).

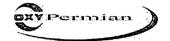
Grid

Survey Calculation Method: Minimum Curvature

Database: Landmark Network DB

Diamad Cubad

Planned Survey									
MD (ft)	inc (°)	Azi (°)	TVD (ft)	TVDSS*** (ft)	V. Sec (ft)	N/S (ft)	STATE TO BE A SECTION OF THE SECTION	DLeg (°/100ft)	
6,950.00	67.74	180.48	6,616.42	-3,545.82	795.58	-795.56	-6.53	6.00	ka-mailkeelikti iluseeliktiksuusellikuurimikkommatuksiadauta lii mikusli, toomusluji, ilusuksuulujusta myasti
7,000.00	70.74	180.48	6,634.14	-3,563.54	842.33	-842.30	-6.92	6.00	
7,050.00	73.74	180.48	6,649.39	-3,578.79	889.94	-889.91	-7.32	6.00	
7,100.00	76.74	180.48	6,662.13	-3,591.53	938.29	-938.25	-7.73	6.00	
7,150.00	79.74	180.49	6,672.32	-3,601.72	987.23	-987.20	-8.14	6.00	
7,200.00	82.74	180.49	6,679.94	-3,609.34	1,036.64	-1,036.61	-8.56	6.00	
7,250.00	85.74	180.49	6,684.96	-3,614.36	1,086.38	-1,086.35	-8.98	6.00	
7,300.00	88.74	180.49	6,687.37	-3,616.77	1,136.32	-1,136.28	-9.41	6.00	
7,321.03	90.00	180.49	6,687.60	-3,617.00	1,157.35	-1,157.31	-9.59	6.00	
7,400.00	90.00	180.49	6,687.60	-3,617.00	1,236.32	-1,236.28	-10.26 ⁻	0.00	
7,500.00	90.00	180.49	6,687.60	-3,617.00	1,336.32	-1,336.27	-11.12	0.00	
7,600.00	90.00	180.49	6,687.60	-3,617.00	1,436.32	-1,436.27	-11.97	0.00	
7,700.00	90.00	180.49	6,687.60	-3,617.00	1,536.32	-1,536.26	-12.83	0.00	
7,800.00	90.00	180.49	6,687.60	-3,617.00	1,636.32	-1,636.26	-13.68	0.00	
7,900.00	90.00	180.49	6,687.60	-3,617.00	1,736.32	-1,736.26	-14.54	0.00	
8,000.00	90.00	180.49	6,687.60	-3,617.00	1,836.32	-1,836.25	-15.40	0.00	
8,100.00	90.00	180.49	6,687.60	-3,617.00	1,936.32	-1,936.25	-16.25	0.00	
8,200.00	90.00	180.49	6,687.60	-3,617.00	2,036.32	-2,036.25	-17.11	0.00	
8,300.00	90.00	180.49	6,687.60	-3,617.00	2,136.32	-2,136.24	-17.96	0.00	
8,400.00	90.00	180.49	6,687.60	-3,617.00	2,236.32	-2,236.24	-18.82	0.00	
8,500.00	90.00	180.49	6,687.60	-3,617.00	2,336.32	-2,336.24	-19.67	0.00	
8,600.00	90.00	180.49	6,687.60	-3,617.00	2,436.32	-2,436.23	-20.53	0.00	
8,700.00	90.00	180.49	6,687.60	-3,617.00	2,536.32	-2,536.23	-21.38	0.00	
8,800.00	90.00	180.49	6,687.60	-3,617.00	2,636.32	-2,636.22	-22.24	0.00	
8,900.00	90.00	180.49	6,687.60	-3,617.00	2,736.32	-2,736.22	-23.09	0.00	
9,000.00	90.00	180.49	6,687.60	-3,617.00	2,836.32	-2,836.22	-23.95	0.00	
9,100.00	90.00	180.49	6,687.60	-3,617.00	2,936.32	-2,936.21	-24.80	0.00	



PathFinder Standard X&Y Report



Company: OXY Permian
Project: Eddy County, NM
Site: Cypress 34 Fed
Well: Well #6H
Wellbore: OH Design: Plan #2

Local Co-ordinate Reference: Well-Well:#6H TVD Reference:

MD Reference: North Reference Survey Calculation Method: Database: Landmark Network DB

RKB to MSL @ 3070.60ft (H&P 370) RKB to MSL @ 3070.60ft (H&P 370)

Grid

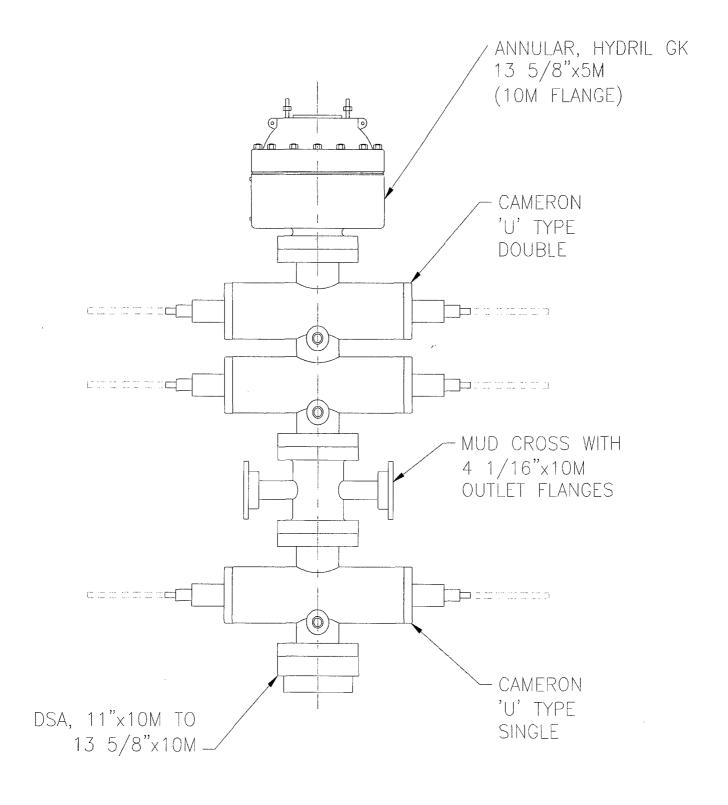
Minimum Curvature

Pla	'n'n	ëd	Sü	rve	V
144		4.0	×	100	

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	·V. Sec+ (ft)	N/S (ft)		DL'eg /100ft)	
9,200.00	90.00	180.49	6,687.60	-3,617.00	3,036.32	-3,036.21	-25.66	0.00	and the second
9,300.00	90.00	180.49	6,687.60	-3,617.00	3,136.32	-3,136.21	-26.51	0.00	
9,400.00	90.00	180.49	6,687.60	-3,617.00	3,236.32	-3,236.20	-27.37	0.00	
9,500.00	90.00	180.49	6,687.60	-3,617.00	3,336.32	-3,336.20	-28.22	0.00	
9,600.00	90.00	180.49	6,687.60	-3,617.00	3,436.32	-3,436.20	-29.08	0.00	
9,700.00	90.00	180.49	6,687.60	-3,617.00	3,536.32	-3,536.19	-29.93	0.00	
9,800.00	90.00	180.49	6,687.60	-3,617.00	3,636.32	-3,636.19	-30.79	0.00	
9,900.00	90.00	180.49	6,687.60	-3,617.00	3,736.32	-3,736.18	-31.64	0.00	
10,000.00	90.00	180.49	6,687.60	-3,617.00	3,836.32	-3,836.18	-32.50	0.00	
10,100.00	90.00	180.49	6,687.60	-3,617.00	3,936.32	-3,936.18	-33.35	0.00	
10,200.00	90.00	180.49	6,687.60	-3,617.00	4,036.32	-4,036.17	-34.21	0.00	
10,300.00	90.00	180.49	6,687.60	-3,617.00	4,136.32	-4,136.17	-35.06	0.00	
10,400.00	90.00	180.49	6,687.60	-3,617.00	4,236.32	-4,236.17	-35.92	0.00	
10,421.03	90.00	180.49	6,687.60	-3,617.00	4,257.35	-4,257.20	-36.10	0.00	

Tärgets Tärget Name : hit/miss/tärget Dip -Shape	o:Angle (°)	Dip Dir. (2)	7VD (ft),	+N/=S: (ft)	+E/-W (ft)	Northing (ft)	Easting (a)	<u> </u>	Longitude
BHL #6H - plan hits target center - Point	0.00	0.00	6,687.60	-4,257.20	-36.10	456,671.10	609,672.90	32° 15' 18.0275	7 N 03° 58' 42.81356 W

Checked By:	Approved By:	Date:
(–		



BOP STACK

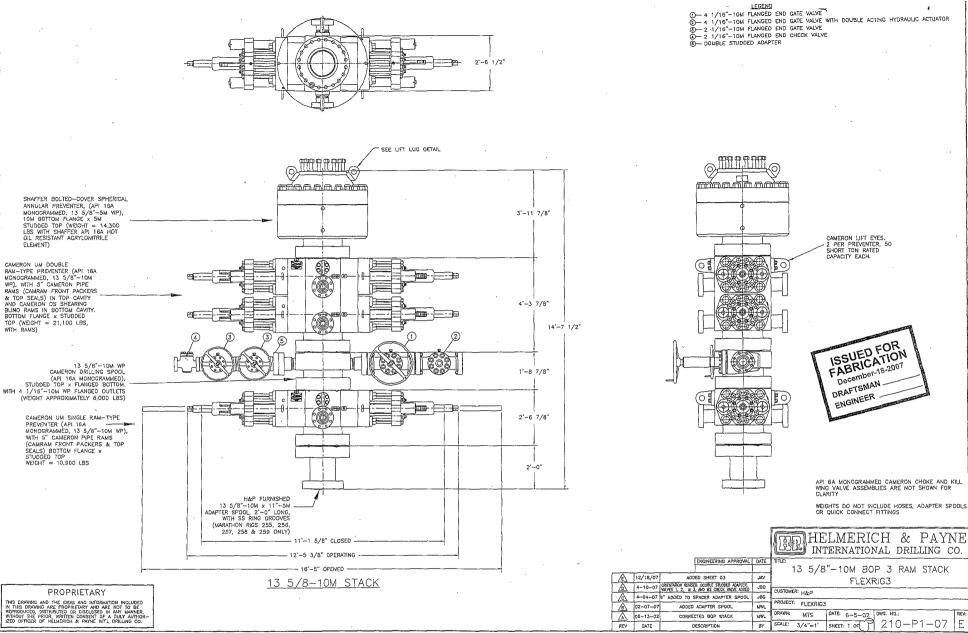


Exhibit 4A

SURFACE USE PLAN OF OPERATIONS

Operator Name/Number: OXY USA Inc. 16696

Lease Name/Number: Cypress 34 Federal #6H 304799 Federal Lease No. NMNM086024

Pool Name/Number: Undesignated Nash Draw Delaware, Southwest 97148

Surface Location: 640 FNL 704 FWL NWNW(D) Sec 34 T23S R29E

Bottom Hole Location: 400 FSL 600 FWL SWSW(M) Sec 34 T23S R29E

1. Existing Roads

a. A copy of a USGS "Remuda Basin, New Mexico" quadrangle map is attached showing the proposed location. The well location is spotted on this map, which shows the existing road system.

b. The well was staked by Terry J. Asel, Certificate No. 15079 on 10/6/09, certified 11/9/09

11

c. At the intersection of Hwy 128 and Hwy 31, go east on Hwy 128 for 4.5 miles. Turn south on CR 793 (Rawhide) for 4.1 miles, turn west on lease road for 3.5 miles. Turn south for 1.4 miles, turn northwest for 0.2 miles to location.

2. New or Reconstructed Access Roads:

a. No new access road will be built.

b. Surfacing material: N/A

c. Maximum Grade: N/A

d. Turnouts: None needed

e. Drainage Design: N/A

f. Culverts: None needed

g. Cut and fills: N/A

h. Gates or cattleguards: none required.

3. Location of Existing Wells:

Existing wells within a one mile radius of the proposed well are shown on Exhibit #3.

4. Location of Existing and/or Proposed Production Facilities.

- a. In the event the well is found productive, the Cypress 34 Federal tank battery would be utilized and the necessary production equipment will be installed at the well site and the tank battery. See proposed Production Facilities Layout diagrams, Exhibit #4.
- b. If necessary, electric power poles will be set along side of the access road.
- c. All flowlines will adhere to API Standards, see Exhibit #4.

5. Location and types of Water Supply.

This well will be drilled using a combination of water mud systems. It will be obtained from commercial water stations in the area and will be hauled to location by transport truck using existing and proposed roads.

6. Construction Materials:

All caliche utilized for the drilling pad and proposed access road will be obtained from an existing BLM approved pit or from prevailing deposits found under the location. Will use BLM recommended use of extra caliche from other locations close by for roads, if available.

7. Methods of Handling Waste Material:

- a. A closed loop system will be utilized consisting of above ground steel tanks and haul-off bins. Disposal of liquids, drilling fluids and cuttings will be disposed of at an approved facility, see C-144 CLEZ.
 - 1. Solids CRI
 - 2. Liquids Laguna
- b. All trash, junk, and other waste material will be contained in trash cages or bins to prevent scattering. When the job is completed, all contents will be removed and disposed of in an approved sanitary landfill.
- c. The supplier, including broken sacks, will pick up slats remaining after completion of well.
- d. A Porto-john will be provided for the rig crews. This equipment will be properly maintained during the drilling and completion operations and will be removed when all operations are complete.
- e. Disposal of fluids to be transported will be by the following companies: TFH Ltd. Laguna SWD Facility
- 8. Ancillary Facilities: None needed

9. Well Site Layout

Exhibit #5 shows the proposed well site layout with dimensions of the pad layout and equipment location.

V-door - Northwest

Tanks - Southeast

Pad Size - 380' X 280'

10. Plans for Surface Reclamation:

- a. After concluding the drilling and/or completion operations, if the well is found non-commercial, the caliche will be removed from the pad and transported to the original caliche pit or used for other drilling locations. The road will be reclaimed as directed by the BLM. The original top soil will again be returned to the pad and contoured, as close as possible, to the original topography.
- b. If the well is deemed commercially productive, caliche from areas of the pad site not required for operations will be reclaimed. The original top soil will be returned to the area of the drill pad not necessary to operate the well. These unused areas of the drill pad will be contoured, as close as possible, to match the original topography, and the area will be seeded with an approved BLM mixture to re-establish vegetation.

11. Surface Ownership

The surface is owned by the U.S. Government and is administered by the BLM. The surface is multiple use with the primary uses of the region for the grazing of livestock and the production of oil and gas. The surface is leased to: Tyson Mahaffey P.O. Box 161 Loving, NM 88256 They will be notified of our intention to drill prior to any activity.

12. Other Information

- a. The vegetation cover is generally sparse consisting of mesquite, yucca, shinnery oak, sandsage and perennial. native range grass. The topsoil is sandy in nature. Wildlife in the area is also sparse consisting of deer, coyotes, rabbits, rodents, reptiles, dove and quail.
- b. There is no permanent or live water in the general proximity of the location.
- c. There are no dwellings within 2 miles of the proposed well site.
- d. A Cultural Resources Examination this well is located in the Permian Basin MOA.

Pad + 1/4 mile road	\$1,339.00	\$0.15/ft over 1/4 mile	\$0.00	\$1,339.00
Pipeline - up to 1mile	\$1,236.00	\$250 per 1/4 mile	\$0.00	\$1,236.00
Electric Line - up to 1mile	\$618.00	\$0.17/ft over 1 mile	\$0.00	\$618.00
Total	\$3,193.00	-	\$0.00	\$3,193.00

13. Bond Coverage:

Bond Coverage is Nationwide Bond No. ES0136.

Operators Representatives:

The OXY Permian representatives responsible for ensuring compliance of the surface use plan are listed below.

John Egelston

Marvin McElroy
Production Coordinator
P.O. Box 50250
Midland, TX 79710
Office Phone: 432-652-8607

Larry Sammons
Production Lead
P.O. Box 50250
Midland, TX 79710
Office Phone: 432-685-5724

Cellular: 806-215-6750 Cellular: 432-296-9323

Sergio Abauat Calvin (Dusty) Weaver
Drilling Superintendent Operation Specialist
P.O. Box 4294 P.O. Box 50250
Houston, TX 77210 Midland, TX 79710

Cellular: 432-893-3067 Cellular: 806-893-3067

Drilling Engineering Supervisor

P.O. Box 4294

Houston, TX 77210

Office Phone: 713-366-5953

Sr. Drilling Engineer

P.O. Box 4294

Houston, TX 77210

Office Phone: 713-215-784

Office Phone: 713-366-5953 Office Phone: 713-215-7849
Cellular: 281-468-4652 Cellular: 713-303-7298

Camilo Arias

OPERATOR CERTIFICATION

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions that presently exist; that I have full knowledge of State and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements. Executed this day of Murch, 2010.

(b) (b)
Name: Barry Beresik Reusik
Position:Reservoir Management Team Leader
Address:5 Greenway Plaza, Suite 110, Houston, TX 77046
Telephone:713-366-5016
E-mail: (optional):barry_beresik@oxy.com
Company:OXY USA Inc
Field Representative (if not above signatory):Marvin McElroy
Address (If different from above): _P.O. Box 50250 Midland, TX 79710
Telephone (if different from above):432-652-8607 - 806-215-6750
E-mail (if different from above):marvin_mcelroy@oxy.com