

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

JUN -8 2009

OCD-ARTESIA

FORM APPROVED
OMB NO. 1004-0135
Expires: November 30, 2000

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No.
NM106304-SL NM1031441-BHL

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on reverse side

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

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.

Goodnight 35 #2H

2. Name of Operator

OXY USA Inc.

16696

Federal

3a. Address

P.O. Box 50250, Midland, TX 79710-0250

3b. Phone No. (include area code)

432-685-5717

9. API Well No.

30-015-36373

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

SL - 180 FSL 490 FWL SWSW(M) Sec 35 T23S R29E

BHL - 330 FNL 660 FWL NWNW(D) Sec 35 T23S R29E

10. Field and Pool, or Exploratory Area
Cedar Canyon Bone Spring

11. County or Parish, State

Eddy NM

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

TYPE OF SUBMISSION

☒ Notice of Intent

☐ Subsequent Report

☐ Final Abandonment Notice

TYPE OF ACTION

☐ Acidize

☐ Deepen

☐ Production (Start/Resume)

☐ Water Shut-Off

☐ Alter Casing

☐ Fracture Treat

☐ Reclamation

☐ Well Integrity

☐ Casing Repair

☐ New Construction

☐ Recomplete

☒ Other **Amend Prod**

☐ Change Plans

☐ Plug and Abandon

☐ Temporarily Abandon

Csg-Directional

☐ Convert to Injection

☐ Plug Back

☐ Water Disposal

Plans

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 final site is ready for final inspection.)

**SEE ATTACHED FOR
CONDITIONS OF APPROVAL**

See Attached

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

David Stewart

Title

Sr. Regulatory Analyst

Date

5/29/09

APPROVED

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

MAY 29 2009

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

**WESLEY W. INGRAM
PETROLEUM ENGINEER**

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.

DRILLING PROGRAM

Operator Name/Number:	OXY USA Inc.	16696
Lease Name/Number:	Goodnight 35 Federal #2H	Federal Lease No. NM103604
Pool Name/Number:	Cedar Canyon Bone Spring -- 11520	
Surface Location:	180' FSL & 491' FWL, Sec. 35, T23S, R29E	
Bottom Hole Location:	330' FNL & 660' FWL, Sec. 35, T23S, R29E	

Proposed TD:	8029' TVD	12400' TMD	Elevation: 3088.6' GR
SL - Lat: 32.2543567N	Long: 103.9618184W	X=614849.0 Y=456451.8	NAD - 1927
BH - Lat: 32.2675633N	Long: 103.9613834W	X=614966.8 Y=461256.5	NAD - 1927

1. Geologic Name of Surface Formation:

a. Permian

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

<u>Geological Marker</u>	<u>Depth</u>	<u>Type</u>
a. Upper Permian Sand	170'	Water
b. Top Salt	550'	---
c. Bottom Salt	2981'	---
d. Lamar	3161'	---
e. Delaware	3221'	Oil
f. Cherry Canyon	4150'	Oil
g. Brushy Canyon	5330'	Oil
h. Bone Springs	6940'	Oil
i. 1st Bone Springs Sand Top	7940'	Oil

3. Casing Program:

<u>Hole Size</u>	<u>Interval</u>	<u>OD Csg</u>	<u>Weight</u>	<u>Collar</u>	<u>Grade</u>	<u>Condition</u>	<u>Collapse Design Factor</u>	<u>Burst Design Factor</u>	<u>Tension Design Factor</u>
17-1/2"	550'	13-3/8"	48#	ST&C	H40	New	2.63	3.97	4.24
12-1/4"	3000' per COA	9-5/8"	47#	BT&C	L80	New	1.83	1.44	1.77
8-1/2"	12400' MD	5-1/2"	17#	LT&C	L80	New	1.26	1.21	2.28
	DVT 5000'								
	DVT/ECP 3075'								

4. Cement Program

- a. 13-3/8" Surface
b. 9-5/8" Intermediate
c. 5-1/2" Production

Stage 1:	100% Excess
Lead:	2150 sx of Super H Cement w/0.5% LAP-1, 0.4% CFR-3, 0.25 lb/sk D-AIR 3000, 0.3% HR-601 mixed at 13.2 ppg, 1.60 yield
Stage 2:	200% Excess
Lead:	450 sx of Interfill C w/0.5% LAP-1, 0.25 lb/sk D-AIR 1, 0.125 lb/sk Pol-E-Flake mixed at 11.7 ppg, 2.62 yield
Tail:	100 sx of Premium Plus Cement w/ 1% CaCl mixed at 14.8 ppg, 1.34 yield
Stage 3:	25% Excess
Lead:	310 sx of Interfill C w/0.5% LAP-1, 0.25 lb/sk D-AIR 3000, 0.125 lb/sk Pol-E-Flake mixed at 11.7 ppg, 2.62 yield
Tail:	100 sx of Premium Plus Cement w/ 2% CaCl mixed at 14.8 ppg, 1.35 yield

OXY USA PERMIAN

CEDAR CANYON

GOODNIGHT 35 Federal

GOODNIGHT 35 FEDERAL #2H

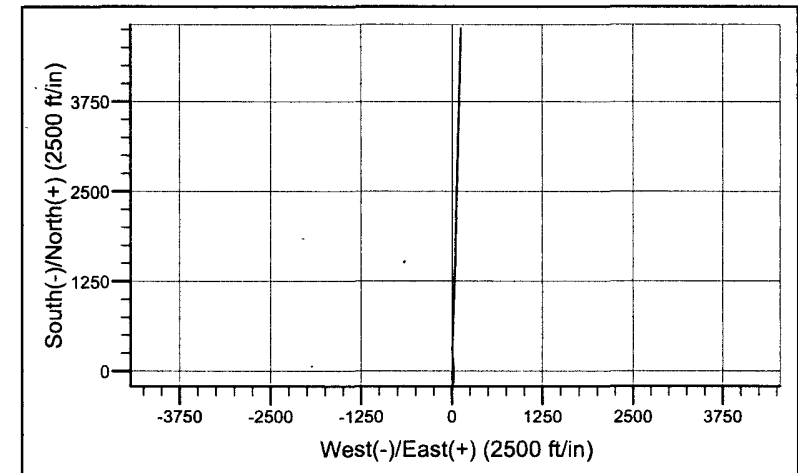
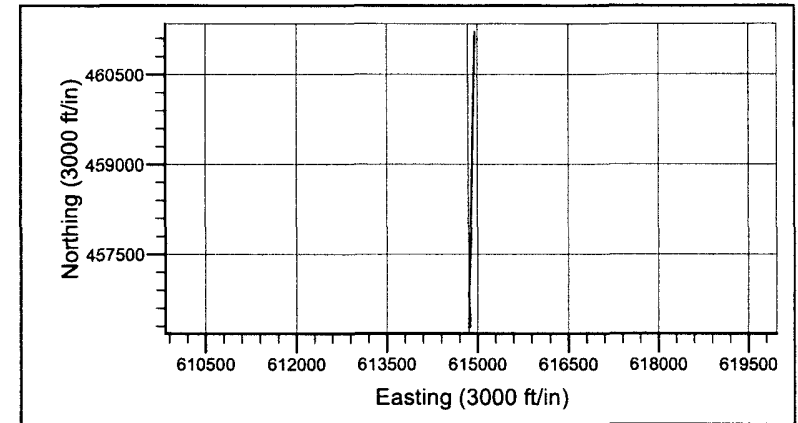
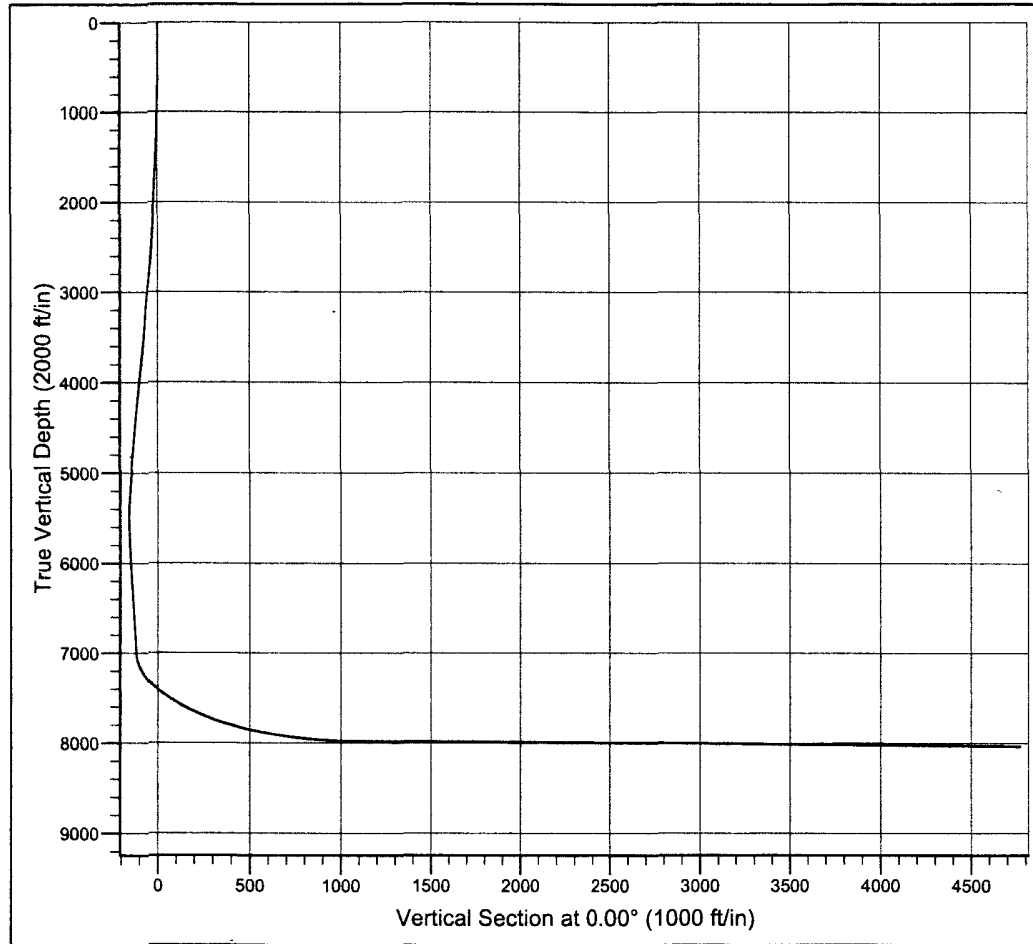
ORIG HOLE

Surveys to 12171 ft MD and Projection to TD at 12400 ft MD

29 May, 2009



Project: CEDAR CANYON
Site: GOODNIGHT 35 Federal
Well: GOODNIGHT 35 FEDERAL #2H
Wellbore: ORIG HOLE
Plan: Design #1 (GOODNIGHT 35 FEDERAL #2H/ORIG HOLE)



OXY Permian Survey Report



Company:	OXY USA PERMIAN	Local Co-ordinate Reference:	Well GOODNIGHT 35 FEDERAL #2H
Project:	CEDAR CANYON	TVD Reference:	ORIGINAL KB @ 3110.0R (H&P 370 (24 FT KB HEIGHT))
Site:	GOODNIGHT 35 Federal	MD Reference:	ORIGINAL KB @ 3110.0R (H&P 370 (24 FT KB HEIGHT))
Well:	GOODNIGHT 35 FEDERAL #2H	North Reference:	True
Wellbore:	ORIG HOLE	Survey Calculation Method:	Minimum Curvature
Design:	Design #1	Database:	HOPSPP

Project:	CEDAR CANYON, NORTH AMERICA		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site:	GOODNIGHT 35 Federal		
Site Position:		Northing:	456,467.58 ft
From:	Map	Easting:	614,854.58 ft
Position Uncertainty:	ft	Slot Radius:	in
		Latitude:	32.254
		Longitude:	-103.962
		Grid Convergence:	0.20 °

Well:	GOODNIGHT 35 FEDERAL #2H: 1406030400		
Well Position	+N/-S	0.0 ft	Latitude: 32.254
	+E/-W	0.0 ft	Longitude: -103.962
Position Uncertainty	ft	Wellhead Elevation:	ft
		Ground Level:	3,086.0 ft

Wellbore:	ORIG HOLE				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF200510	5/29/2009	8.00	60.21	48,825

Design:	Design #1				
Audit Notes:					
Version:	Phase:	PROTOTYPE		Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(ft)	(ft)	(ft)	(°)	
	0.0	0.0	0.0	0.00	

Survey Tool Program	Date	5/29/2009			
From	To	Survey (Wellbore)	Tool Name	Description	
(ft)	(ft)				
0.0	12,400.0	Design #1 (ORIG HOLE)	INC	Inclination	

Planned Survey									
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Vertical Section	Dogleg Rate	Build Rate	Turn Rate
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	(°/100ft)	(°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
250.0	0.25	45.00	250.0	0.4	0.4	0.4	0.10	0.10	0.00
500.0	0.50	177.90	500.0	-0.3	0.8	-0.3	0.28	0.10	53.16
625.0	0.25	111.90	625.0	-1.0	1.1	-1.0	0.37	-0.20	-52.80
663.0	0.00	0.00	663.0	-1.0	1.2	-1.0	0.66	-0.66	0.00
938.0	0.50	167.90	938.0	-2.2	1.4	-2.2	0.18	0.18	0.00
1,032.0	1.00	163.90	1,032.0	-3.4	1.7	-3.4	0.53	0.53	-4.26
1,126.0	1.00	186.90	1,126.0	-5.0	1.9	-5.0	0.42	0.00	24.47
1,221.0	1.00	200.90	1,221.0	-6.6	1.5	-6.6	0.26	0.00	14.74
1,315.0	0.75	205.90	1,314.9	-7.9	0.9	-7.9	0.28	-0.27	5.32
1,409.0	1.00	193.90	1,408.9	-9.2	0.4	-9.2	0.33	0.27	-12.77
1,503.0	1.00	200.90	1,502.9	-10.8	-0.1	-10.8	0.13	0.00	7.45
1,598.0	1.50	171.90	1,597.9	-12.8	-0.2	-12.8	0.83	0.53	-30.53

OXY Permian Survey Report



Company:	OXY USA PERMIAN	Local Co-ordinate Reference:	Well GOODNIGHT 35 FEDERAL #2H
Project:	CEDAR CANYON	TVD Reference:	ORIGINAL KB @ 3110.0ft (H&P 370 (24 FT KB HEIGHT))
Site:	GOODNIGHT 35 Federal	MD Reference:	ORIGINAL KB @ 3110.0ft (H&P 370 (24 FT KB HEIGHT))
Well:	GOODNIGHT 35 FEDERAL #2H	North Reference:	True
Wellbore:	ORIG HOLE	Survey Calculation Method:	Minimum Curvature
Design:	Design #1	Database:	HOPSPP

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
1,692.0	1.50	175.90	1,691.9	-15.2	0.1	-15.2	0.11	0.00	4.26
1,786.0	1.50	175.90	1,785.8	-17.7	0.3	-17.7	0.00	0.00	0.00
1,975.0	1.50	185.90	1,974.8	-22.6	0.2	-22.6	0.14	0.00	5.29
2,163.0	1.50	173.90	2,162.7	-27.5	0.2	-27.5	0.17	0.00	-6.38
2,257.0	1.50	187.90	2,256.7	-30.0	0.2	-30.0	0.39	0.00	14.89
2,351.0	1.50	166.90	2,350.6	-32.4	0.3	-32.4	0.58	0.00	-22.34
2,446.0	1.50	158.90	2,445.6	-34.7	1.0	-34.7	0.22	0.00	-8.42
2,540.0	2.00	139.90	2,539.6	-37.2	2.5	-37.2	0.81	0.53	-20.21
2,823.0	3.00	175.90	2,822.3	-48.3	6.2	-48.3	0.64	0.35	12.72
2,950.0	4.00	219.90	2,949.1	-55.0	3.6	-55.0	2.19	0.79	34.65
3,097.0	3.50	148.90	3,095.8	-62.8	2.6	-62.8	2.97	-0.34	-48.30
3,192.0	2.50	230.90	3,190.8	-66.6	2.5	-66.6	4.22	-1.05	86.32
3,286.0	2.50	229.90	3,284.7	-69.2	-0.6	-69.2	0.05	0.00	-1.06
3,380.0	2.50	226.90	3,378.6	-71.9	-3.7	-71.9	0.14	0.00	-3.19
3,475.0	2.75	160.90	3,473.5	-75.5	-4.5	-75.5	3.02	0.26	-69.47
3,664.0	3.00	156.90	3,662.3	-84.3	-1.1	-84.3	0.17	0.13	-2.12
3,758.0	3.25	158.90	3,756.1	-89.1	0.9	-89.1	0.29	0.27	2.13
3,852.0	3.25	215.90	3,850.0	-93.7	0.3	-93.7	3.30	0.00	60.64
3,946.0	3.25	214.90	3,943.8	-98.1	-2.8	-98.1	0.06	0.00	-1.06
4,041.0	3.25	149.90	4,038.7	-102.6	-3.0	-102.6	3.67	0.00	-68.42
4,135.0	3.00	148.90	4,132.6	-107.0	-0.4	-107.0	0.27	-0.27	-1.06
4,229.0	3.00	155.90	4,226.4	-111.4	1.9	-111.4	0.39	0.00	7.45
4,323.0	3.00	152.90	4,320.3	-115.8	4.0	-115.8	0.17	0.00	-3.19
4,418.0	3.00	160.90	4,415.2	-120.4	5.9	-120.4	0.44	0.00	8.42
4,512.0	2.50	158.90	4,509.1	-124.6	7.5	-124.6	0.54	-0.53	-2.13
4,606.0	3.00	147.90	4,603.0	-128.6	9.5	-128.6	0.77	0.53	-11.70
5,344.0	2.75	230.90	5,340.3	-156.1	6.1	-156.1	0.52	-0.03	11.25
5,382.0	2.37	158.98	5,378.3	-157.5	5.6	-157.5	7.95	-1.00	-189.26
5,394.0	2.02	154.06	5,390.3	-157.9	5.8	-157.9	3.31	-2.92	-41.00
5,476.0	0.70	79.50	5,472.3	-159.1	6.9	-159.1	2.38	-1.61	-90.93
5,507.0	0.79	73.50	5,503.2	-159.0	7.3	-159.0	0.38	0.29	-19.35
5,570.0	1.32	36.98	5,566.2	-158.3	8.2	-158.3	1.32	0.84	-57.97
5,665.0	1.67	32.76	5,661.2	-156.2	9.6	-156.2	0.39	0.37	-4.44
5,759.0	1.49	31.58	5,755.2	-154.1	11.0	-154.1	0.19	-0.19	-1.26
5,853.0	1.58	33.57	5,849.1	-151.9	12.3	-151.9	0.11	0.10	2.12
5,948.0	1.49	36.48	5,944.1	-149.8	13.8	-149.8	0.13	-0.09	3.06
6,042.0	1.41	39.62	6,038.1	-148.0	15.2	-148.0	0.12	-0.09	3.34
6,136.0	1.93	10.98	6,132.0	-145.5	16.3	-145.5	1.03	0.55	-30.47
6,230.0	1.93	9.43	6,226.0	-142.4	16.8	-142.4	0.06	0.00	-1.65
6,325.0	2.11	14.51	6,320.9	-139.1	17.5	-139.1	0.27	0.19	5.35
6,419.0	2.11	352.72	6,414.9	-135.8	17.8	-135.8	0.85	0.00	-23.18
6,513.0	2.20	345.62	6,508.8	-132.3	17.1	-132.3	0.30	0.10	-7.55
6,607.0	1.85	342.48	6,602.7	-129.1	16.2	-129.1	0.39	-0.37	-3.34
6,702.0	1.49	348.20	6,697.7	-126.4	15.5	-126.4	0.42	-0.38	6.02
6,796.0	1.41	351.51	6,791.7	-124.1	15.1	-124.1	0.12	-0.09	3.52
6,890.0	1.41	345.49	6,885.6	-121.8	14.6	-121.8	0.16	0.00	-6.40
6,985.0	1.49	343.55	6,980.6	-119.5	14.0	-119.5	0.10	0.08	-2.04
7,048.0	4.66	5.21	7,043.5	-116.2	14.0	-116.2	5.27	5.03	34.38
7,079.0	6.60	4.49	7,074.4	-113.1	14.2	-113.1	6.26	6.26	-2.32
7,110.0	8.97	3.54	7,105.1	-108.9	14.5	-108.9	7.66	7.65	-3.06
7,142.0	11.08	1.59	7,136.6	-103.4	14.7	-103.4	6.68	6.59	-6.09
7,173.0	13.54	0.55	7,166.9	-96.8	14.9	-96.8	7.97	7.94	-3.35
7,205.0	15.92	1.34	7,197.8	-88.6	15.0	-88.6	7.46	7.44	2.47
7,236.0	17.94	1.26	7,227.5	-79.6	15.2	-79.6	6.52	6.52	-0.26

OXY Permian Survey Report



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Project:	CEDAR CANYON	TVD Reference:	ORIGINAL KB @ 3110.0ft (H&P 370 (24 FT KB HEIGHT))
Site:	GOODNIGHT 35 Federal	MD Reference:	ORIGINAL KB @ 3110.0ft (H&P 370 (24 FT KB HEIGHT))
Well:	GOODNIGHT 35 FEDERAL #2H	North Reference:	True
Wellbore:	ORIG HOLE	Survey Calculation Method:	Minimum Curvature
Design:	Design #1	Database:	HOPSP

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Bulld Rate (°/100ft)	Turn Rate (°/100ft)
7,267.0	19.43	2.72	7,256.8	-69.7	15.5	-69.7	5.04	4.81	4.71
7,298.0	21.19	2.91	7,285.9	-58.9	16.1	-58.9	5.68	5.68	0.61
7,330.0	22.45	3.43	7,315.6	-47.1	16.7	-47.1	3.98	3.94	1.62
7,361.0	24.89	2.60	7,344.0	-34.6	17.4	-34.6	7.94	7.87	-2.68
7,392.0	27.70	0.75	7,371.8	-20.9	17.8	-20.9	9.44	9.06	-5.97
7,424.0	30.95	359.02	7,399.7	-5.3	17.7	-5.3	10.49	10.16	-5.41
7,455.0	32.98	357.46	7,426.0	11.2	17.2	11.2	7.07	6.55	-5.03
7,486.0	35.09	357.42	7,451.7	28.5	16.4	28.5	6.81	6.81	-0.13
7,518.0	37.02	356.14	7,477.5	47.3	15.4	47.3	6.47	6.03	-4.00
7,549.0	36.93	355.89	7,502.3	65.9	14.1	65.9	0.57	-0.29	-0.81
7,581.0	36.67	356.05	7,527.9	85.0	12.7	85.0	0.87	-0.81	0.50
7,612.0	38.60	356.81	7,552.5	103.9	11.6	103.9	6.40	6.23	2.45
7,643.0	41.59	357.28	7,576.2	123.8	10.5	123.8	9.69	9.65	1.52
7,675.0	43.97	356.60	7,599.7	145.5	9.4	145.5	7.58	7.44	-2.12
7,706.0	45.90	356.15	7,621.6	167.4	8.0	167.4	6.31	6.23	-1.45
7,738.0	47.57	356.51	7,643.5	190.6	6.5	190.6	5.28	5.22	1.12
7,769.0	49.33	357.41	7,664.1	213.8	5.3	213.8	6.08	5.68	2.90
7,801.0	50.30	357.18	7,684.8	238.2	4.1	238.2	3.08	3.03	-0.72
7,832.0	51.18	357.69	7,704.4	262.2	3.0	262.2	3.11	2.84	1.65
7,863.0	51.27	357.57	7,723.8	286.4	2.0	286.4	0.42	0.29	-0.39
7,895.0	52.85	358.69	7,743.5	311.6	1.2	311.6	5.66	4.94	3.50
7,926.0	54.78	359.12	7,761.8	336.6	0.7	336.6	6.33	6.23	1.39
7,958.0	56.72	0.08	7,779.8	363.0	0.6	363.0	6.55	6.06	3.00
7,989.0	58.56	0.72	7,796.4	389.2	0.7	389.2	6.19	5.94	2.06
8,020.0	61.55	1.79	7,811.8	416.1	1.3	416.1	10.10	9.65	3.45
8,052.0	63.14	1.77	7,826.7	444.4	2.2	444.4	4.97	4.97	-0.06
8,083.0	64.02	2.30	7,840.5	472.1	3.2	472.1	3.23	2.84	1.71
8,115.0	65.69	2.20	7,854.1	501.1	4.3	501.1	5.23	5.22	-0.31
8,146.0	67.97	1.90	7,866.3	529.6	5.4	529.6	7.41	7.35	-0.97
8,178.0	70.35	1.42	7,877.7	559.5	6.2	559.5	7.57	7.44	-1.50
8,209.0	72.37	0.59	7,887.6	588.8	6.7	588.8	6.99	6.52	-2.68
8,240.0	72.72	1.21	7,896.9	618.4	7.2	618.4	2.22	1.13	2.00
8,272.0	72.46	0.91	7,906.4	648.9	7.8	648.9	1.21	-0.81	-0.94
8,303.0	74.22	1.94	7,915.3	678.6	8.5	678.6	6.51	5.68	3.32
8,335.0	74.22	1.60	7,924.0	709.4	9.5	709.4	1.02	0.00	-1.06
8,366.0	75.45	1.99	7,932.1	739.3	10.4	739.3	4.15	3.97	1.26
8,398.0	75.80	2.44	7,940.1	770.3	11.6	770.3	1.75	1.09	1.41
8,429.0	76.33	2.20	7,947.6	800.3	12.8	800.3	1.87	1.71	-0.77
8,461.0	77.73	2.47	7,954.7	831.5	14.1	831.5	4.45	4.37	0.84
8,492.0	79.93	3.62	7,960.7	861.9	15.7	861.9	7.98	7.10	3.71
8,523.0	81.95	3.30	7,965.6	892.4	17.5	892.4	6.60	6.52	-1.03
8,555.0	84.15	3.12	7,969.5	924.1	19.3	924.1	6.90	6.87	-0.56
8,586.0	85.82	3.29	7,972.2	955.0	21.1	955.0	5.41	5.39	0.55
8,618.0	87.05	2.81	7,974.2	986.9	22.8	986.9	4.13	3.84	-1.50
8,649.0	88.99	2.22	7,975.3	1,017.8	24.1	1,017.8	6.54	6.26	-1.90
8,681.0	89.69	2.13	7,975.6	1,049.8	25.3	1,049.8	2.21	2.19	-0.28
8,712.0	89.78	1.83	7,975.8	1,080.8	26.4	1,080.8	1.01	0.29	-0.97
8,743.0	89.78	1.79	7,975.9	1,111.7	27.4	1,111.7	0.13	0.00	-0.13
8,806.0	89.87	1.98	7,976.1	1,174.7	29.4	1,174.7	0.33	0.14	0.30
8,866.0	89.78	2.09	7,976.3	1,254.7	32.3	1,254.7	0.18	-0.11	0.14
8,965.0	89.34	2.94	7,976.9	1,333.6	35.8	1,333.6	1.21	-0.56	1.08
9,059.0	89.34	2.09	7,978.0	1,427.5	39.9	1,427.5	0.90	0.00	-0.90
9,154.0	89.52	0.85	7,979.0	1,522.4	42.3	1,522.4	1.32	0.19	-1.31
9,248.0	89.34	0.54	7,979.9	1,616.4	43.5	1,616.4	0.38	-0.19	-0.33

OXY Permian Survey Report



Company:	OXY USA PERMIAN	Local Co-ordinate Reference:	Well GOODNIGHT 35 FEDERAL #2H
Project:	CEDAR CANYON	TVD Reference:	ORIGINAL KB @ 3110.0ft (H&P 370 (24 FT KB HEIGHT))
Site:	GOODNIGHT 35 Federal	MD Reference:	ORIGINAL KB @ 3110.0ft (H&P 370 (24 FT KB HEIGHT))
Well:	GOODNIGHT 35 FEDERAL #2H	North Reference:	True
Wellbore:	ORIG HOLE	Survey Calculation Method:	Minimum Curvature
Design:	Design #1	Database:	HOPSPP

Planned Survey:									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
9,342.0	89.08	0.09	7,981.2	1,710.4	44.0	1,710.4	0.55	-0.28	-0.48
9,436.0	88.20	1.55	7,983.4	1,804.4	45.3	1,804.4	1.81	-0.94	1.55
9,531.0	90.22	2.36	7,984.7	1,899.3	48.6	1,899.3	2.29	2.13	0.85
9,593.0	89.43	1.31	7,984.9	1,961.3	50.5	1,961.3	2.12	-1.27	-1.69
9,625.0	89.52	1.07	7,985.2	1,993.3	51.2	1,993.3	0.80	0.28	-0.75
9,688.0	89.16	1.56	7,985.9	2,056.2	52.7	2,056.2	0.97	-0.57	0.78
9,751.0	89.34	1.39	7,986.8	2,119.2	54.3	2,119.2	0.39	0.29	-0.27
9,813.0	89.16	1.10	7,987.6	2,181.2	55.6	2,181.2	0.55	-0.29	-0.47
9,876.0	89.43	1.77	7,988.4	2,244.2	57.2	2,244.2	1.15	0.43	1.06
9,908.0	89.34	1.45	7,988.7	2,276.2	58.1	2,276.2	1.04	-0.28	-1.00
9,971.0	89.25	1.51	7,989.5	2,339.1	59.7	2,339.1	0.17	-0.14	0.10
10,034.0	89.43	1.41	7,990.2	2,402.1	61.3	2,402.1	0.33	0.29	-0.16
10,096.0	88.99	1.09	7,991.1	2,464.1	62.7	2,464.1	0.88	-0.71	-0.52
10,159.0	89.69	0.91	7,991.8	2,527.1	63.8	2,527.1	1.15	1.11	-0.29
10,222.0	89.34	1.26	7,992.3	2,590.1	65.0	2,590.1	0.79	-0.56	0.56
10,285.0	89.43	1.44	7,993.0	2,653.0	66.5	2,653.0	0.32	0.14	0.29
10,348.0	89.60	1.67	7,993.5	2,716.0	68.2	2,716.0	0.45	0.27	0.37
10,411.0	89.78	1.32	7,993.9	2,779.0	69.8	2,779.0	0.62	0.29	-0.56
10,473.0	90.13	0.96	7,993.9	2,841.0	71.0	2,841.0	0.81	0.56	-0.58
10,568.0	89.25	0.87	7,994.4	2,936.0	72.6	2,936.0	0.93	-0.93	-0.09
10,662.0	88.90	0.97	7,995.9	3,029.9	74.1	3,029.9	0.39	-0.37	0.11
10,756.0	88.20	1.00	7,998.3	3,123.9	75.7	3,123.9	0.75	-0.74	0.03
10,851.0	88.64	1.64	8,000.9	3,218.8	77.9	3,218.8	0.82	0.46	0.67
10,945.0	88.29	2.36	8,003.5	3,312.7	81.2	3,312.7	0.85	-0.37	0.77
11,039.0	89.25	1.47	8,005.5	3,406.7	84.3	3,406.7	1.39	1.02	-0.95
11,134.0	88.72	1.17	8,007.2	3,501.6	86.5	3,501.6	0.64	-0.56	-0.32
11,228.0	88.99	1.96	8,009.0	3,595.6	89.1	3,595.6	0.89	0.29	0.84
11,322.0	88.81	1.54	8,010.8	3,689.5	91.9	3,689.5	0.49	-0.19	-0.45
11,417.0	90.22	1.36	8,011.7	3,784.5	94.3	3,784.5	1.50	1.48	-0.19
11,511.0	90.31	1.80	8,011.2	3,878.4	96.9	3,878.4	0.48	0.10	0.47
11,605.0	88.90	1.24	8,011.9	3,972.4	99.4	3,972.4	1.61	-1.50	-0.60
11,700.0	88.11	1.53	8,014.3	4,067.3	101.7	4,067.3	0.89	-0.83	0.31
11,794.0	88.20	1.01	8,017.4	4,161.3	103.8	4,161.3	0.56	0.10	-0.55
11,888.0	89.16	1.14	8,019.5	4,255.2	105.6	4,255.2	1.03	1.02	0.14
11,983.0	88.64	0.79	8,021.4	4,350.2	107.2	4,350.2	0.66	-0.55	-0.37
12,077.0	89.78	1.20	8,022.7	4,444.2	108.8	4,444.2	1.29	1.21	0.44
12,171.0	89.78	2.09	8,023.0	4,538.1	111.5	4,538.1	0.95	0.00	0.95
12,400.0	89.50	2.00	8,024.5	4,767.0	119.7	4,767.0	0.13	-0.12	-0.04

OXY Permian Survey Report



Company:	OXY USA PERMIAN	Local Co-ordinate Reference:	Well GOODNIGHT 35' FEDERAL #2H
Project:	CEDAR CANYON	TVD Reference:	ORIGINAL KB @ 3110.0ft (H&P 370 (24 FT KB HEIGHT))
Site:	GOODNIGHT 35 Federal	MD Reference:	ORIGINAL KB @ 3110.0ft (H&P 370 (24 FT KB HEIGHT))
Well:	GOODNIGHT 35 FEDERAL #2H	North Reference:	True
Wellbore:	ORIG HOLE	Survey Calculation Method:	Minimum Curvature
Design:	Design #1	Database:	HOPSPP

Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
- Shape									
OXY PLAT	0.00	0.00	7,996.0	4,804.3	134.4	461,256.50	614,966.80	32.268	-103.961
- plan misses by 49.2ft at 12400.0ft MD (8024.5 TVD, 4767.0 N, 119.7 E)									
- Point									

Casing Points					
Measured Depth	Vertical Depth	Name	Casing Diameter	Hole Diameter	
(ft)	(ft)		(in)	(in)	
550.0	550.0	13 3/8" Surface Casing	13.375	17.500	
3,000.0	2,999.0	9 5/8" Intermediate Casing	9.625	12.250	

Checked By: _____ Approved By: _____ Date: _____

**Goodnight 35 Federal 2H
30-015-36373
OXY USA Inc.
May 29, 2009
Conditions of Approval**

- 1. DV tool at 3075' must be set a minimum of 50' below the Intermediate casing shoe.**
- 2. Vertical hole and to a measured depth of 7925' is unorthodox.**
- 3. Additional cement may be required on the third stage as excess is minimal.**

WWI 052909