

District I
1625 N. French, 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

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO.
30-015-33677
5. Indicate Type Of Lease
STATE ☒ FEE ☐
6. State Oil & Gas Lease No.
B-10715

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well:
OIL WELL ☐ GAS WELL ☒ DRY ☐ OTHER _____
b. Type of Completion:
NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ OTHER _____
7. Lease Name or Unit Agreement Name
OXY Cottontail State
RECEIVED

2. Name of Operator
OXY USA WTP Limited Partnership 192463
8. Well No.
1 MAY 18 2005

3. Address of Operator
P.O. Box 50250 Midland, TX 79710-0250
9. Pool name or Wildcat
Undsq. Red Lake Atoka-Morrow

4. Well Location
Unit Letter L : 1470 Feet From The south Line and 750 Feet From The west Line
Section 13 Township 18S Range 27E NMPM Eddy County

10. Date Spudded 12/28/04
11. Date T.D. Reached 2/6/05
12. Date Compl. (Ready to Prod.) 3/15/05
13. Elevations (DF & RKB, RT, GR, etc.) 3522'
14. Elev. Casinghead

15. Total Depth 10431' M 10374' V
16. Plug Back T.D. 10405' M 10348' V
17. If Multiple Compl. How Many Zones?
18. Intervals Drilled By
Rotary Tools X
Cable Tools

19. Producing Interval(s), of this completion - Top, Bottom, Name
9936-9970' Morrow
20. Was Directional Survey Made
Yes

21. Type Electric and Other Logs Run
DLL/MLL/CZDL/DSL/CNL/GRL
22. Was Well Cored
No

23. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8"	48#	432'	17-1/2"	460sx-Surf-Circ	N/A
9-5/8"	36#	1820'	12-1/4"	620sx-Surf-Circ	N/A
5-1/2"	17#	10431'	8-3/4"	1600sx-TOC-1680'-TS	N/A

24. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN

25. TUBING RECORD

SIZE	DEPTH SET	PACKER SET
2-3/8"	9921'	9910'

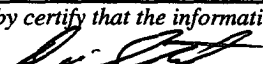
26. Perforation record (interval, size, and number)
9936-46, 9956-58, 9966-9970' Total 38 holes
27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.
DEPTH INTERVAL AMOUNT AND KIND MATERIAL USED
9936-9970' 2000g 7.5% HCl acid
9936-9970' 24386g 70% CO2 FF w/48800# sand

28. PRODUCTION

Date First Production 4/28/05
Production Method (Flowing, gas lift, pumping - Size and type pump)
Flowing
Well Status (Prod. or Shut-in)
Prod
Date of Test 5/10/04
Hours Tested 24
Choke Size 18/64
Prod'n For Test Period
Oil - Bbl. 26
Gas - MCF 1025
Water - Bbl. 25
Gas - Oil Ratio
Flow Tubing Press. 569
Casing Pressure
Calculated 24-Hour Rate
Oil - Bbl. 26
Gas - MCF 1025
Water - Bbl. 25
Oil Gravity - API -(Corr.)

29. Disposition of Gas (Sold, used for fuel, vented, etc.)
Sold
Test Witnessed By
G. Henrich

30. List Attachments
C-103, C-104, Deviation/Directional Survey, Logs

31. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief
Signature  Printed Name David Stewart Title Sr. Reg Analyst Date 5/17/05
E-mail address david.stewart@oxy.com

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 25 through 29 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico		Northeastern New Mexico	
T. Anhy	T. Canyon	T. Ojo Alamo	T. Penn. "B"
T. Salt	T. Strawn 9334'	T. Kirtland-Fruitland	T. Penn. "C"
B. Salt	T. Atoka 9718'	T. Pictured Cliffs	T. Penn. "D"
T. Yates	T. Miss	T. Cliff House	T. Leadville
T. 7 Rivers	T. Devonian	T. Menefee	T. Madison
T. Queen	T. Silurian	T. Point Lookout	T. Elbert
T. Grayburg	T. Montoya	T. Mancos	T. McCracken
T. San Andres	T. Simpson	T. Gallup	T. Ignacio Otzte
T. Glorieta	T. McKee	Base Greenhorn	T. Granite
T. Paddock	T. Ellenburger	T. Dakota	T.
T. Blinebry	T. Gr. Wash	T. Morrison	T.
T. Tubb	T. Delaware Sand	T. Todilto	T.
T. Drinkard	T. Bone Springs	T. Entrada	T.
T. Abo	T. Morrow 9914'	T. Wingate	T.
T. Wolfcamp 7080'		T. Chinle	T.
T. Penn	T.	T. Permian	T.
T. Cisco (Bough C)	T.	T. Penn "A"	T.

OIL OR GAS SANDS OR ZONES

No. 1, from _____ to _____
 No. 2, from _____ to _____
 No. 3, from _____ to _____
 No. 4, from _____ to _____

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from _____ to _____ feet _____
 No. 2, from _____ to _____ feet _____
 No. 3, from _____ to _____ feet _____

LITHOLOGY RECORD (Attach additional sheet if necessary)

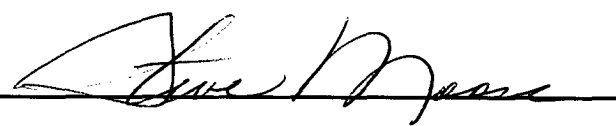
From	To	Thickness in Feet	Lithology	From	To	Thickness in Feet	Lithology
0	435	435	Halite				
462	4261	3826	Anhyd. Dolom. Sndst. Shale				
4261	7080	2819	Lmest. Sndst. Shale				
7080	8218	1138	Lmest. Dolom. Shale. Chert				
8218	9334	1116	Lmest. Shale				
9334	9718	384	Lmest. Chert. Shale				
9718	9914	196	Lmest. Sndst. Shale. Chert				
9914	10218	304	Sndst. Lmest. Shale				
10218	10412	194	Shale				

OPERATOR OXY USA
WELL/LEASE COTTONTAIL ST #1
COUNTY EDDY, NM

508-0081

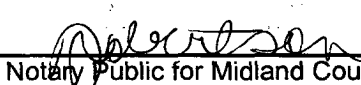
STATE OF NEW MEXICO
DEVIATION REPORT

199	0.75	6,106	2.00	8,321	11.50
430	1.00	6,264	5.40	8,385	11.00
928	1.00	6,327	7.20	8,447	11.20
1,428	3.00	6,422	9.10	8,479	11.40
1,595	2.00	6,453	10.20	8,542	10.70
1,820	3.75	6,484	10.80	8,602	10.00
1,968	1.50	6,516	11.90	8,668	8.80
2,097	1.50	6,643	12.50	8,731	7.70
2,286	1.75	6,706	12.80	8,794	5.90
2,486	1.75	6,769	12.50	8,857	4.70
2,731	2.75	6,896	11.60	8,920	3.60
2,925	1.50	6,959	13.30	8,981	1.90
3,116	1.50	7,022	13.40	9,043	1.80
3,370	3.00	7,085	13.20	9,105	1.40
3,560	1.00	7,149	13.10	9,199	1.10
3,752	2.25	7,211	12.80	9,293	0.90
3,942	1.75	7,274	12.70	9,386	0.40
4,132	1.50	7,338	12.10	9,478	0.50
4,322	1.75	7,401	12.80	9,574	0.20
4,512	2.25	7,528	11.60	9,668	0.40
4,670	1.00	7,591	11.60	9,760	1.10
4,858	2.50	7,654	10.20	9,854	0.90
4,984	2.75	7,684	10.30	9,946	1.50
5,180	2.75	7,749	11.60	9,996	2.10
5,370	3.00	7,847	14.00	10,100	2.70
5,559	4.75	7,910	14.80	10,161	3.10
5,853	0.70	7,974	14.10	10,193	3.00
5,885	0.30	8,037	12.80	10,287	2.40
5,917	0.50	8,100	11.60	10,381	2.20
6,043	1.50	8,163	12.00	10,431	2.00
6,075	1.60	8,227	12.90		

BY: 

STATE OF TEXAS
COUNTY OF MIDLAND

The foregoing instrument was acknowledged before me February 16, 2005, by Steve Moore on behalf of Patterson - UTI Drilling Company, LP, LLLP.


Notary Public for Midland County, Texas
My Commission Expires: 8/23/07



J. ROBERTSON
Notary Public, State of Texas
My Commission Expires:
August 23, 2007



Oxy Permian

Eddy Co., New Mexico

Oxy Cottontail State Com #1

Oxy Cottontail State Com #1

S-Well #1

Survey: MWD Survey #1

Standard Survey Report

08 February, 2005

RECEIVED

MAY 18 2005

OCD-ARTESIA





Black Viper Energy Services

Survey Report



Database: EDM 2003.5 Single User Db
Company: Oxy Permian
Project: Eddy Co., New Mexico
Site: Oxy Cottontail State Com #1
Well: Oxy Cottontail State Com #1
Wellbore: S-Well #1
Design: S-Well #1

Local Co-ordinate Reference: Well Oxy Cottontail State Com #1
TVD Reference: WELL @ 0.00ft (Original Well Elev)
MD Reference: WELL @ 0.00ft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project	Eddy Co., New Mexico		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Ground Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Oxy Cottontail State Com #1, Sec 13, T-18S, R-27E			
Site Position:		Northing:	627779.50 ft	Latitude: 32° 43' 32.878" N
From:	Lat/Long	Easting:	537392.57 ft	Longitude: 104° 12' 42.286" W
Position Uncertainty:	ft	Slot Radius:	in	Grid Convergence: 0.07 °

Well	Oxy Cottontail State Com #1			
Well Position	+N/-S	0.00 ft	Northing:	627779.50 ft
	+E/-W	0.00 ft	Easting:	537392.57 ft
Position Uncertainty		ft	Wellhead Elevation:	ft
				Ground Level: 0.00 ft

Wellbore	S-Well #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2000	10/7/2004	8.92	60.78	49693

Design	S-Well #1				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	5635.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(ft)	(ft)	(ft)	(°)	
	0.00	0.00	0.00	71.57	

Survey Program	Date 2/2/2005				
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
100.00	5635.00	Gyro Survey #1 (OH)	GM	Gyro MultiShot	
5651.00	10424.00	MWD Survey #1 (S-Well #1)	MWD	Standard MWD	

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)
5635.00	3.61	328.85	5632.34	49.22	-135.52	-113.01	0.00	0.00	0.00
5651.00	2.90	320.00	5648.31	49.97	-136.04	-113.27	5.42	-4.44	-55.31
5683.00	2.60	328.60	5680.28	51.21	-136.94	-113.73	1.59	-0.94	26.87
First MWD Survey									
5715.00	1.60	316.30	5712.25	52.15	-137.63	-114.08	3.41	-3.12	-38.44
5746.00	1.40	319.80	5743.24	52.75	-138.17	-114.41	0.71	-0.65	11.29
5778.00	1.00	313.50	5775.24	53.24	-138.62	-114.68	1.31	-1.25	-19.69
5809.00	0.70	300.90	5806.23	53.52	-138.98	-114.93	1.13	-0.97	-40.65
5841.00	0.30	315.20	5838.23	53.68	-139.21	-115.10	1.30	-1.25	44.69
5873.00	0.50	192.40	5870.23	53.61	-139.30	-115.21	2.22	0.62	-383.75
5904.00	0:30	179.80	5901.23	53.39	-139.33	-115.30	0.70	-0.65	-40.65



Black Viper Energy Services

Survey Report



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Well: Oxy Cottontail State Com #1
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TVD Reference: WELL @ 0.00ft (Original Well Elev)
MD Reference: WELL @ 0.00ft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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)
5936.00	1.00	134.80	5933.23	53.11	-139.13	-115.20	2.55	2.19	-140.62
5967.00	0.90	137.50	5964.22	52.74	-138.77	-114.98	0.35	-0.32	8.71
5998.00	1.50	120.40	5995.22	52.36	-138.26	-114.61	2.23	1.94	-55.16
6030.00	1.60	124.00	6027.21	51.90	-137.53	-114.07	0.44	0.31	11.25
6062.00	2.00	127.80	6059.19	51.30	-136.71	-113.48	1.30	1.25	11.87
6094.00	2.50	118.60	6091.16	50.63	-135.66	-112.70	1.92	1.56	-28.75
6125.00	3.20	112.20	6122.13	49.98	-134.27	-111.58	2.48	2.26	-20.65
6157.00	4.00	105.50	6154.06	49.34	-132.36	-109.98	2.82	2.50	-20.94
6189.00	4.90	102.60	6185.97	48.75	-129.95	-107.88	2.90	2.81	-9.06
6220.00	5.40	104.70	6216.84	48.09	-127.25	-105.52	1.72	1.61	6.77
6252.00	6.50	104.40	6248.67	47.25	-124.04	-102.74	3.44	3.44	-0.94
6283.00	7.20	99.30	6279.45	46.50	-120.42	-99.54	2.99	2.26	-16.45
6315.00	7.70	98.20	6311.18	45.87	-116.32	-95.85	1.62	1.56	-3.44
6346.00	8.70	97.90	6341.86	45.26	-111.94	-91.90	3.23	3.23	-0.97
6378.00	9.10	94.40	6373.47	44.73	-107.02	-87.39	2.10	1.25	-10.94
6409.00	10.20	94.40	6404.04	44.33	-101.84	-82.60	3.55	3.55	0.00
6440.00	10.80	93.70	6434.52	43.93	-96.21	-77.38	1.98	1.94	-2.26
6472.00	11.90	93.20	6465.89	43.55	-89.92	-71.54	3.45	3.44	-1.56
6504.00	11.60	92.10	6497.22	43.25	-83.41	-65.46	1.17	-0.94	-3.44
6535.00	12.40	87.80	6527.54	43.27	-76.97	-59.35	3.87	2.58	-13.87
6599.00	12.50	85.70	6590.04	44.05	-63.20	-46.03	0.72	0.16	-3.28
6662.00	12.80	80.40	6651.51	45.72	-49.52	-32.52	1.90	0.48	-8.41
6725.00	12.50	80.50	6712.98	48.01	-35.91	-18.89	0.48	-0.48	0.16
6789.00	12.00	80.30	6775.52	50.28	-22.52	-5.47	0.78	-0.78	-0.31
6852.00	11.60	82.30	6837.19	52.23	-9.79	7.22	0.91	-0.63	3.17
6915.00	13.30	82.30	6898.71	54.05	3.67	20.57	2.70	2.70	0.00
6978.00	13.40	82.50	6960.01	55.97	18.09	34.85	0.17	0.16	0.32
7041.00	13.20	83.50	7021.32	57.74	32.47	49.06	0.48	-0.32	1.59
7105.00	13.10	81.20	7083.64	59.68	46.90	63.36	0.83	-0.16	-3.59
7167.00	12.80	81.40	7144.06	61.78	60.63	77.05	0.49	-0.48	0.32
7230.00	12.70	81.60	7205.51	63.83	74.38	90.75	0.17	-0.16	0.32
7357.00	12.80	82.50	7329.38	67.71	102.14	118.31	0.18	0.08	0.71
7420.00	12.10	82.10	7390.89	69.53	115.60	131.65	1.12	-1.11	-0.63
7484.00	11.60	82.10	7453.53	71.33	128.62	144.58	0.78	-0.78	0.00
7547.00	11.60	82.70	7515.24	73.01	141.18	157.02	0.19	0.00	0.95
7610.00	10.20	85.60	7577.11	74.24	153.02	168.64	2.39	-2.22	4.60
7705.00	11.60	84.10	7670.39	75.87	170.91	186.13	1.50	1.47	-1.58
7737.00	12.50	86.60	7701.68	76.41	177.57	192.62	3.25	2.81	7.81
7804.00	14.00	92.30	7766.90	76.51	192.90	207.20	2.97	2.24	8.51
7867.00	14.80	89.30	7827.92	76.30	208.57	221.99	1.74	1.27	-4.76
7931.00	14.10	84.10	7889.90	77.20	224.49	237.39	2.30	-1.09	-8.12
7994.00	12.70	83.30	7951.18	78.80	239.01	251.66	2.24	-2.22	-1.27
8057.00	11.60	83.90	8012.77	80.28	252.18	264.63	1.76	-1.75	0.95
8120.00	12.00	78.90	8074.44	82.22	264.91	277.31	1.74	0.63	-7.94
8184.00	12.90	73.90	8136.94	85.48	278.30	291.05	2.19	1.41	-7.81
8278.00	11.50	72.80	8228.81	91.16	297.33	310.90	1.51	-1.49	-1.17
8341.00	11.00	71.30	8290.80	94.94	309.03	323.19	0.92	-0.79	-2.38
8404.00	11.20	69.30	8352.42	99.03	320.44	335.32	0.69	0.32	-3.17
8436.00	11.40	67.60	8383.80	101.34	326.27	341.58	1.21	0.62	-5.31
8499.00	10.70	72.40	8445.64	105.48	337.61	353.64	1.83	-1.11	7.62
8562.00	10.00	69.50	8507.61	109.16	348.30	364.95	1.38	-1.11	-4.60
8625.00	8.80	70.20	8569.77	112.71	357.96	375.24	1.91	-1.90	1.11
8688.00	7.70	65.20	8632.11	116.11	366.33	384.25	2.08	-1.75	-7.94



Black Viper Energy Services

Survey Report



Database: EDM 2003.5 Single User Db
Company: Oxy Permian
Project: Eddy Co., New Mexico
Site: Oxy Cottontail State Com #1
Well: Oxy Cottontail State Com #1
Wellbore: S-Well #1
Design: S-Well #1

Local Co-ordinate Reference: Well Oxy Cottontail State Com #1
TVD Reference: WELL @ 0.00ft (Original Well Elev)
MD Reference: WELL @ 0.00ft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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)
8751.00	5.90	62.60	8694.67	119.37	373.03	391.64	2.90	-2.86	-4.13
8814.00	4.70	57.00	8757.40	122.27	378.07	397.34	2.07	-1.90	-8.89
8877.00	3.60	61.60	8820.23	124.62	381.98	401.78	1.82	-1.75	7.30
8938.00	1.90	50.80	8881.16	126.17	384.45	404.62	2.90	-2.79	-17.70
9000.00	1.80	27.40	8943.13	127.68	385.69	406.28	1.22	-0.16	-37.74
9062.00	1.40	7.40	9005.10	129.30	386.24	407.30	1.10	-0.65	-32.26
9156.00	1.10	0.10	9099.08	131.34	386.39	408.09	0.36	-0.32	-7.77
9250.00	0.90	24.20	9193.07	132.91	386.69	408.88	0.49	-0.21	25.64
9343.00	0.40	296.80	9286.06	133.73	386.70	409.14	1.04	-0.54	-93.98
9436.00	0.50	330.80	9379.06	134.23	386.21	408.84	0.30	0.11	36.56
9531.00	0.20	173.20	9474.06	134.42	386.03	408.73	0.73	-0.32	-165.89
9625.00	0.40	281.30	9568.06	134.32	385.73	408.41	0.53	0.21	115.00
9717.00	1.10	245.40	9660.05	134.02	384.61	407.25	0.88	0.76	-39.02
9810.00	0.90	198.10	9753.04	132.95	383.57	405.93	0.88	-0.22	-50.86
9903.00	1.50	195.40	9846.02	131.09	383.02	404.82	0.65	0.65	-2.90
9996.00	2.10	203.10	9938.97	128.35	382.03	403.01	0.69	0.65	8.28
10087.00	2.70	213.20	10029.89	125.02	380.20	400.23	0.80	0.66	11.10
10118.00	3.10	218.10	10060.85	123.75	379.29	398.95	1.52	1.29	15.81
10153.00	3.00	224.10	10095.80	122.35	378.06	397.35	0.96	-0.29	17.14
10224.00	2.40	254.00	10166.73	120.60	375.34	394.22	2.12	-0.85	42.11
10381.00	2.20	258.20	10323.60	119.08	369.23	387.94	0.17	-0.13	2.68
Last MWD Survey									
10431.00	2.20	258.20	10373.56	118.69	367.35	386.03	0.00	0.00	0.00
Proj to Bit - TD									

Targets

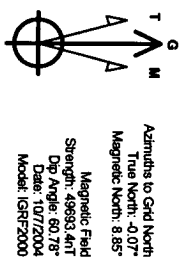
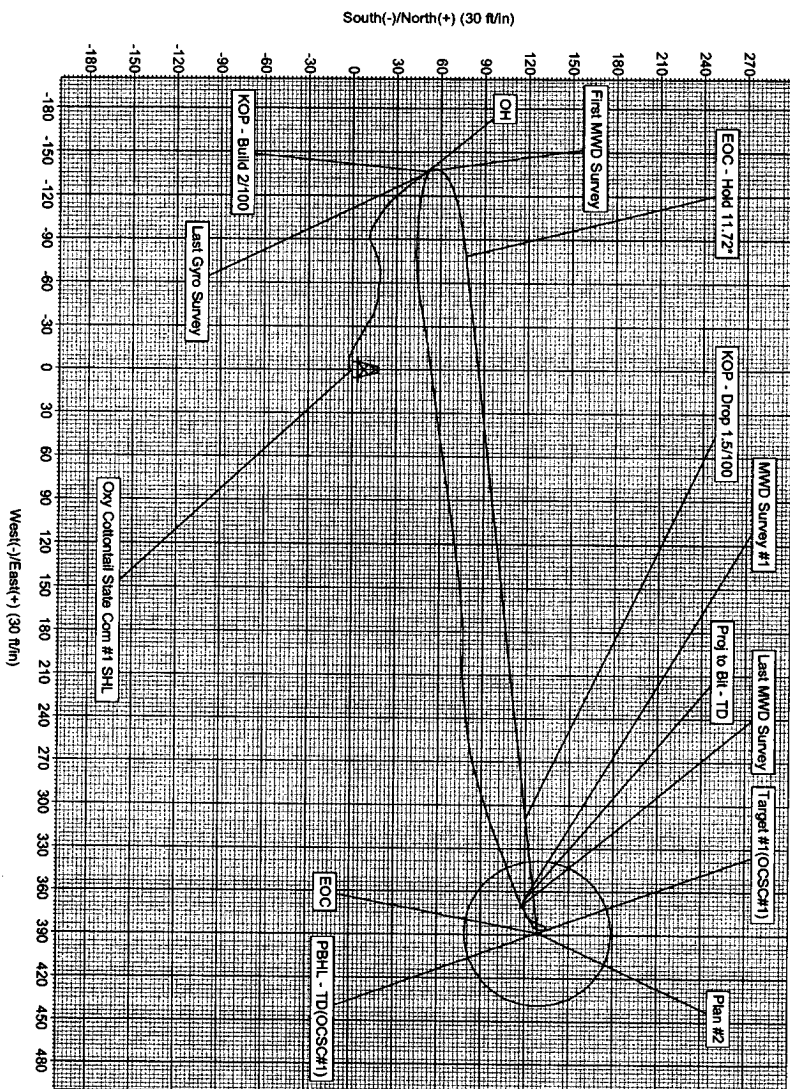
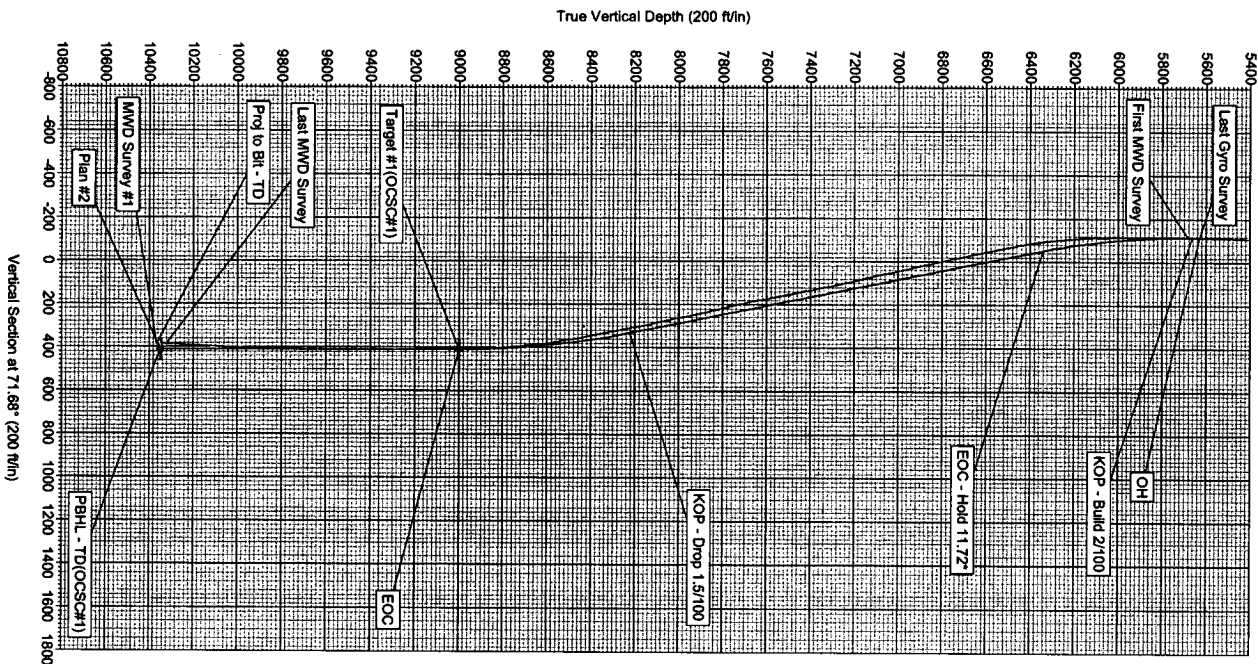
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S ft	+E/-W ft	Northing (ft)	Easting (ft)	Latitude	Longitude
Target #1(OCSC#1)	0.00	0.00	9000.00	128.74	388.93	627908.24	537781.49	32° 43' 34.148" N	104° 12' 37.731" W
-Circle (radius 50.00)									
PBHL - TD(OCSC#1)	0.00	0.00	10350.00	128.74	388.93	627908.24	537781.49	32° 43' 34.148" N	104° 12' 37.731" W
-Circle (radius 50.00)									

Survey Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
5683.00	5680.28	51.21	-136.94	First MWD Survey
10381.00	10323.60	119.08	369.23	Last MWD Survey
10431.00	10373.56	118.69	367.35	Proj to Bit - TD



Project: Eddy Co., New Mexico
 Site: Oxy Cottontail State Corn #1
 Well: Oxy Cottontail State Corn #1
 Wellbore: S-Well #1
 Plan: Plan #2



Plan: Plan #2 (Oxy Cottontail State Corn #1-S-Well #1)
 Created By: John Halberg Date: 1/15/2005

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dlog	TRace	VSec	Target
1	5600.00	3.44	326.88	5597.40	47.40	-134.38	0.00	-112.67	-112.67	Target #1 (OCSC#1)
2	5635.00	3.61	328.85	5632.34	49.22	-135.52	0.60	-113.18	-113.18	Target #1 (OCSC#1)
3	5667.00	3.61	328.85	5664.27	50.95	-136.56	0.00	-113.63	-113.63	Target #1 (OCSC#1)
4	6348.68	11.72	83.69	6341.37	77.05	-78.55	2.00	-50.35	-50.35	Target #1 (OCSC#1)
5	8271.31	11.72	83.69	8223.89	119.99	309.73	0.00	331.75	331.75	Target #1 (OCSC#1)
6	9052.86	0.00	83.93	9000.00	128.74	388.93	1.50	409.68	409.68	Target #1 (OCSC#1)
7	10402.86	0.00	83.93	10350.00	128.74	388.93	0.00	409.68	409.68	Target #1 (OCSC#1)

TVD
 5664.27
 6341.37
 8223.89
 9052.86
 10402.86

MD Annotation
 KOP - Build 27/100
 EOC - Hold 11.72°
 KOP - Drop 1.5/100
 EOC



Oxy Permian
Oxy Cottontail State Com #1 - MWD Survey #1Eddy Co., New Mexico
Oxy Cottontail State Com #1
Your Ref:

Measured Depth (ft)	Incl.	Azim.	Vertical Depth (ft)	Northings (ft)	Eastings (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
5635.00	3.610	328.850	5632.34	49.22 N	135.52 W	-113.01	0.00
5651.00	2.900	320.000	5648.31	49.97 N	136.04 W	-113.27	5.42
5683.00	2.600	328.600	5680.28	51.21 N	136.94 W	-113.73	1.59
5715.00	1.600	316.300	5712.25	52.15 N	137.63 W	-114.08	3.41
5746.00	1.400	319.800	5743.24	52.75 N	138.17 W	-114.41	0.71
5778.00	1.000	313.500	5775.24	53.24 N	138.62 W	-114.68	1.31
5809.00	0.700	300.900	5806.23	53.52 N	138.98 W	-114.93	1.13
5841.00	0.300	315.200	5838.23	53.68 N	139.21 W	-115.10	1.30
5873.00	0.500	192.400	5870.23	53.61 N	139.30 W	-115.21	2.22
5904.00	0.300	179.800	5901.23	53.39 N	139.33 W	-115.30	0.70
5936.00	1.000	134.800	5933.23	53.11 N	139.13 W	-115.20	2.55
5967.00	0.900	137.500	5964.22	52.74 N	138.77 W	-114.98	0.35
5998.00	1.500	120.400	5995.22	52.36 N	138.26 W	-114.61	2.23
6030.00	1.600	124.000	6027.21	51.90 N	137.53 W	-114.07	0.44
6062.00	2.000	127.800	6059.19	51.30 N	136.71 W	-113.48	1.30
6094.00	2.500	118.600	6091.16	50.63 N	135.66 W	-112.70	1.92
6125.00	3.200	112.200	6122.13	49.98 N	134.27 W	-111.58	2.48
6157.00	4.000	105.500	6154.06	49.34 N	132.36 W	-109.98	2.82
6189.00	4.900	102.600	6185.97	48.75 N	129.95 W	-107.88	2.90
6220.00	5.400	104.700	6216.84	48.09 N	127.25 W	-105.52	1.72
6252.00	6.500	104.400	6248.67	47.25 N	124.04 W	-102.74	3.44
6283.00	7.200	99.300	6279.45	46.50 N	120.42 W	-99.54	2.99
6315.00	7.700	98.200	6311.18	45.87 N	116.32 W	-95.85	1.62
6346.00	8.700	97.900	6341.86	45.26 N	111.94 W	-91.90	3.23
6378.00	9.100	94.400	6373.47	44.73 N	107.02 W	-87.39	2.10
6409.00	10.200	94.400	6404.04	44.33 N	101.84 W	-82.60	3.55
6440.00	10.800	93.700	6434.52	43.93 N	96.21 W	-77.38	1.98
6472.00	11.900	93.200	6465.89	43.55 N	89.92 W	-71.54	3.45
6504.00	11.600	92.100	6497.22	43.25 N	83.41 W	-65.46	1.17
6535.00	12.400	87.800	6527.54	43.27 N	76.97 W	-59.35	3.87
6599.00	12.500	85.700	6590.04	44.05 N	63.20 W	-46.03	0.72
6662.00	12.800	80.400	6651.51	45.72 N	49.52 W	-32.52	1.90
6725.00	12.500	80.500	6712.98	48.01 N	35.91 W	-18.89	0.48
6789.00	12.000	80.300	6775.52	50.28 N	22.52 W	-5.47	0.78
6852.00	11.600	82.300	6837.19	52.23 N	9.79 W	7.22	0.91
6915.00	13.300	82.300	6898.71	54.05 N	3.67 E	20.57	2.70
6978.00	13.400	82.500	6960.01	55.97 N	18.09 E	34.85	0.17
7041.00	13.200	83.500	7021.32	57.74 N	32.47 E	49.06	0.48
7105.00	13.100	81.200	7083.64	59.68 N	46.90 E	63.36	0.83
7167.00	12.800	81.400	7144.06	61.78 N	60.63 E	77.05	0.49
7230.00	12.700	81.600	7205.51	63.83 N	74.38 E	90.75	0.17

			Oxy	Cottontail	State	Com	#1	Final	Report	2-2-05.txt
7357.00	12.800	82.500	7329.38	67.71	N	102.14	E	118.31	0.18	
7420.00	12.100	82.100	7390.89	69.53	N	115.60	E	131.65	1.12	
7484.00	11.600	82.100	7453.53	71.33	N	128.62	E	144.58	0.78	
7547.00	11.600	82.700	7515.24	73.01	N	141.18	E	157.02	0.19	
7610.00	10.200	85.600	7577.11	74.24	N	153.02	E	168.64	2.39	
7705.00	11.600	84.100	7670.39	75.87	N	170.91	E	186.13	1.50	
7737.00	12.500	86.600	7701.68	76.41	N	177.57	E	192.62	3.25	
7804.00	14.000	92.300	7766.90	76.51	N	192.90	E	207.20	2.97	
7867.00	14.800	89.300	7827.92	76.30	N	208.57	E	221.99	1.74	
7931.00	14.100	84.100	7889.90	77.20	N	224.49	E	237.39	2.30	
7994.00	12.700	83.300	7951.18	78.80	N	239.01	E	251.66	2.24	
8057.00	11.600	83.900	8012.77	80.28	N	252.18	E	264.63	1.76	
8120.00	12.000	78.900	8074.44	82.22	N	264.91	E	277.31	1.74	
8184.00	12.900	73.900	8136.94	85.48	N	278.30	E	291.05	2.19	
8278.00	11.500	72.800	8228.81	91.16	N	297.33	E	310.90	1.51	
8341.00	11.000	71.300	8290.60	94.94	N	309.03	E	323.19	0.92	
8404.00	11.200	69.300	8352.42	99.03	N	320.44	E	335.32	0.69	
8436.00	11.400	67.600	8383.80	101.34	N	326.27	E	341.58	1.21	
8499.00	10.700	72.400	8445.64	105.48	N	337.61	E	353.64	1.83	
8562.00	10.000	69.500	8507.61	109.16	N	348.30	E	364.95	1.38	
8625.00	8.800	70.200	8569.77	112.71	N	357.96	E	375.24	1.91	
8688.00	7.700	65.200	8632.11	116.11	N	366.33	E	384.25	2.08	
8751.00	5.900	62.600	8694.67	119.37	N	373.03	E	391.64	2.90	
8814.00	4.700	57.000	8757.40	122.27	N	378.07	E	397.34	2.07	
8877.00	3.600	61.600	8820.23	124.62	N	381.98	E	401.78	1.82	
8938.00	1.900	50.800	8881.16	126.17	N	384.45	E	404.62	2.90	
9000.00	1.800	27.400	8943.13	127.68	N	385.69	E	406.28	1.22	
9062.00	1.400	7.400	9005.10	129.30	N	386.24	E	407.30	1.10	
9156.00	1.100	0.100	9099.08	131.34	N	386.39	E	408.09	0.36	
9250.00	0.900	24.200	9193.07	132.91	N	386.69	E	408.88	0.49	
9343.00	0.400	296.800	9286.06	133.73	N	386.70	E	409.14	1.04	
9436.00	0.500	330.800	9379.06	134.23	N	386.21	E	408.84	0.30	
9531.00	0.200	173.200	9474.06	134.42	N	386.03	E	408.73	0.73	
9625.00	0.400	281.300	9568.06	134.32	N	385.73	E	408.41	0.53	
9717.00	1.100	245.400	9660.05	134.02	N	384.61	E	407.25	0.88	
9810.00	0.900	198.100	9753.04	132.95	N	383.57	E	405.93	0.88	
9903.00	1.500	195.400	9846.02	131.09	N	383.02	E	404.82	0.65	
9996.00	2.100	203.100	9938.97	128.35	N	382.03	E	403.01	0.69	
10087.00	2.700	213.200	10029.89	125.02	N	380.20	E	400.23	0.80	
10118.00	3.100	218.100	10060.85	123.75	N	379.29	E	398.95	1.52	
10153.00	3.000	224.100	10095.80	122.35	N	378.06	E	397.35	0.96	
10224.00	2.400	254.000	10166.73	120.60	N	375.34	E	394.22	2.12	
10381.00	2.200	258.200	10323.60	119.08	N	369.23	E	387.94	0.17	
10431.00	2.200	258.200	10373.56	118.69	N	367.35	E	386.03	0.00	

All data are in feet unless otherwise stated. Directions and coordinates are relative to Grid North. Vertical depths are relative to well. Northings and Eastings are relative to well.

The Dogleg Severity is in Degrees per 100 feet. Vertical Section is from Slot and calculated along an Azimuth of 71.570° (Grid).

Coordinate System is NAD 1927 (NADCON CONUS) US State Plane 1927 (Exact solution), New Mexico East 3001. Central meridian is -104.333°. Grid Convergence at surface is 0.066°.

OXY Cottontail State Com #1 Final Report 2-2-05.txt
Based upon Minimum Curvature type calculations, at a Measured Depth of 10431.00ft.,
the Bottom Hole Displacement is 386.05ft., in the Direction of 71.570° (Grid).