

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-42269	Pool Code 51687	Pool Name Red Tank Bone Spring, East
Property Code 40380	Property Name RIDGE RUNNER "7" STATE	Well Number 2H
OGRID No. 16696	Operator Name OXY USA INC.	Elevation 3612.2'

Surface Location

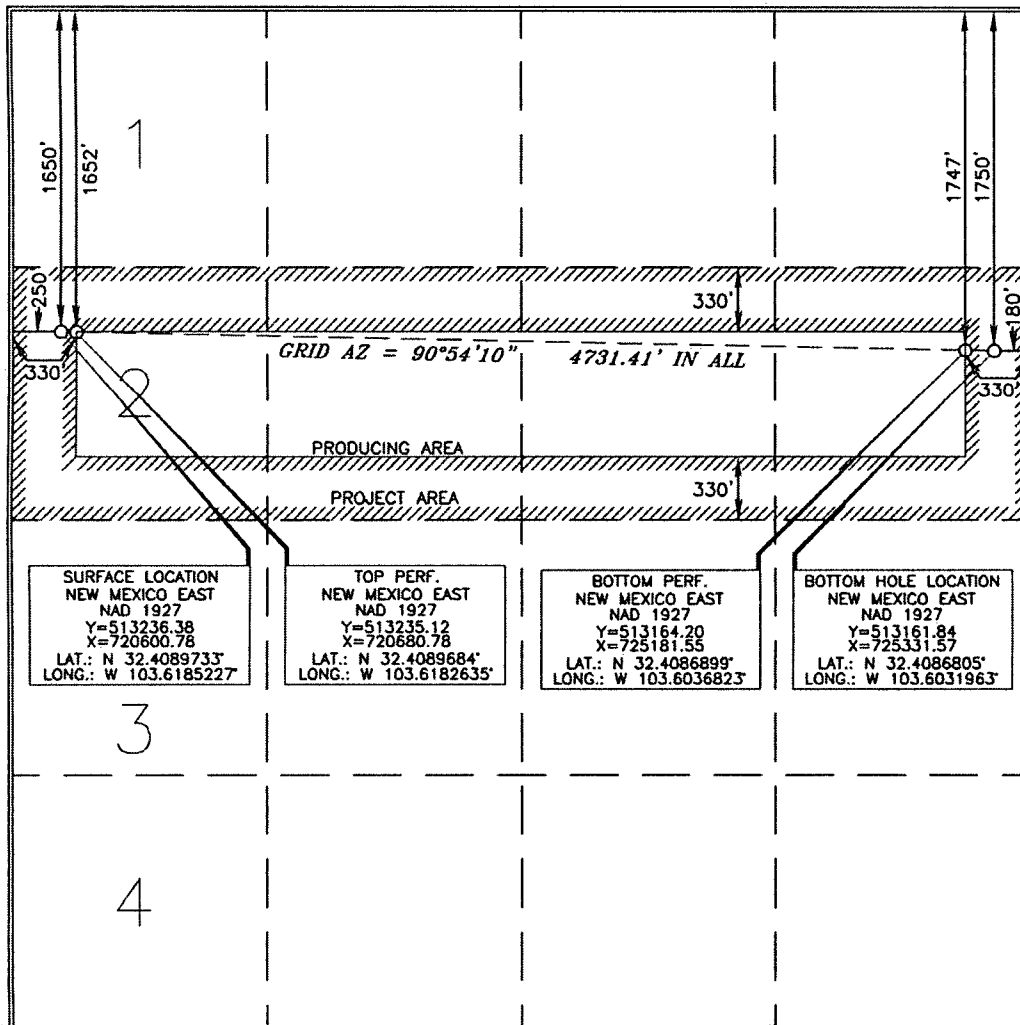
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
2	7	22 SOUTH	33 EAST, N.M.P.M.		1650'	NORTH	250'	WEST	LEA

Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	7	22 SOUTH	33 EAST, N.M.P.M.		1750'	NORTH	180'	EAST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
160			

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature: *David Stewart* Date: 11/13/14
Printed Name: David Stewart Sr. Reg. Adv.
E-mail Address: david_stewart@oxy.com

SURVEYOR CERTIFICATION

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

Signature: *Terry J. Asch* Date of Survey: JUNE 24, 2014
Professional Surveyor: 15079
Certificate Number: 15079



Ridge Runner 7 State 2H
Lea County, New Mexico
Northing: 513236.38
Easting: 720600.78
Plan #2



Azimuths to Grid North
True North: -0.38
Magnetic North: 6.82

Magnetic Field
Strength: 48381.6sn
Dip Angle: 60.26
Date: 11/5/2011
Model: IGRF2011

To convert Magnetic North to Grid, Add 6.82°
To convert True North to Grid, Subtract 0.38°



KB @ 3637.2usft
Gr @ 3612.2

WELL DETAILS RR 7 S 2H						
Ground Level: 3612.2						
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
0.0	0.0	513236.38	720600.78	32° 24' 32.304 N	103° 37' 6.682 W	

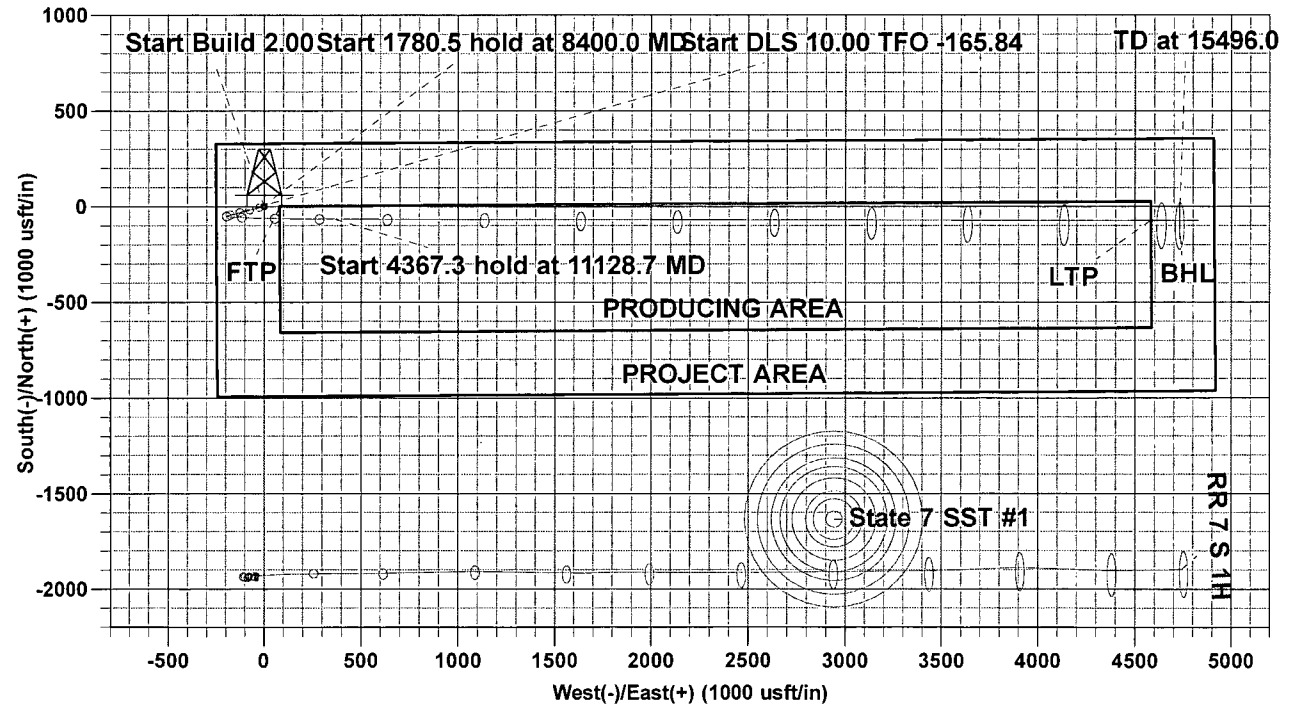
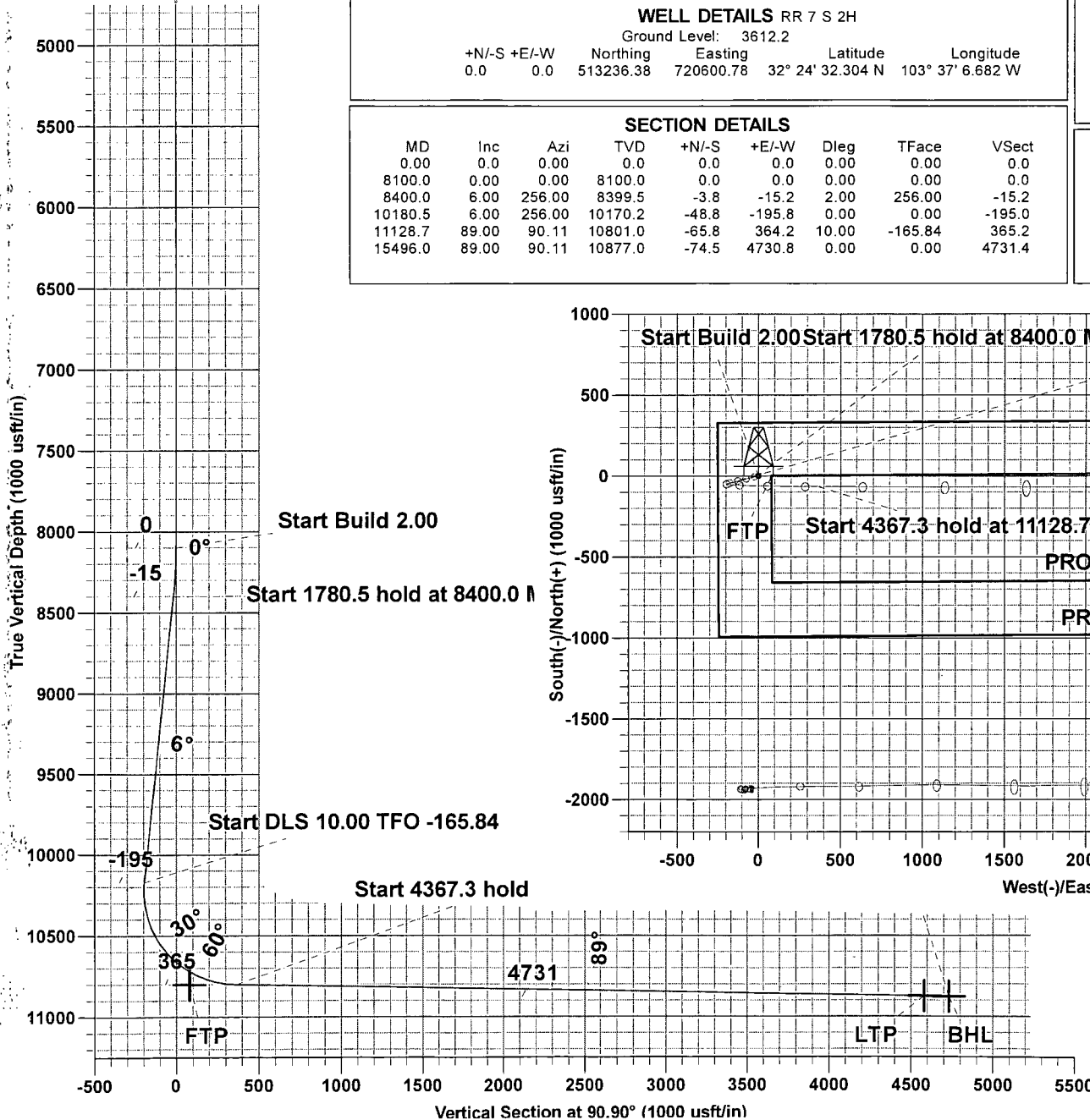
SECTION DETAILS								
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
0.00	0.0	0.00	0.0	0.0	0.0	0.00	0.00	0.0
8100.0	0.00	0.00	8100.0	0.0	0.0	0.00	0.00	0.0
8400.0	6.00	256.00	8399.5	-3.8	-15.2	2.00	256.00	-15.2
10180.5	6.00	256.00	10170.2	-48.8	-195.8	0.00	0.00	-195.0
11128.7	89.00	90.11	10801.0	-65.8	364.2	10.00	-165.84	365.2
15496.0	89.00	90.11	10877.0	-74.5	4730.8	0.00	0.00	4731.4

DESIGN TARGET DETAILS					
Name	TVD	+N/-S	+E/-W	Northing	Easting
RR 7S 2H FTP	10801.0	-1.3	80.0	513235.12	720680.78
RR 7S 2H LTP	10874.0	-72.2	4580.8	513164.20	725181.55
RR 7S 2H BHL	10877.0	-74.5	4730.8	513161.84	725331.57

PROJECT DETAILS:
Lea County, New Mexico
Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level

SITE DETAILS:
Ridge Runner 7 State 2H
Site Centre Northing: 513236.38
Easting: 720600.78

Positional Uncertainty: 0.0
Convergence: 0.38
Local North: Grid



Planning Report

Database:	Midland District	Local Co-ordinate Reference:	Well RR 7 S 2H
Company:	OXY	TVD Reference:	KB @ 3637.2usft
Project:	Lea County, New Mexico	MD Reference:	KB @ 3637.2usft
Site:	Ridge Runner 7 State 2H	North Reference:	Grid
Well:	RR 7 S 2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Wellbore		
Design:	Plan #2		

Project	Lea County, New Mexico		
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	Ridge Runner 7 State 2H		
Site Position:		Northing:	513,236.38 usft
From:	Map	Easting:	720,600.78 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 24' 32.304 N
		Longitude:	103° 37' 6.682 W
		Grid Convergence:	0.38 °

Well	RR 7 S 2H		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	0.0 usft
		Latitude:	32° 24' 32.304 N
		Longitude:	103° 37' 6.682 W
		Ground Level:	3,612.2 usft

Wellbore	Original Wellbore		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF2010	11/5/2014	7.20
			Dip Angle
			(°)
			60.26
			Field Strength
			(nT)
			48,382

Design	Plan #2		
Audit Notes:			
Version:	Phase:	PROTOTYPE	Tie On Depth:
			0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			(°)
			90.90

Plan Sections										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(usft)	(usft)	Rate	Rate	Rate	(°)	
(usft)			(usft)			(°/100usft)	(°/100usft)	(°/100usft)		
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
8,100.0	0.00	0.00	8,100.0	0.0	0.0	0.00	0.00	0.00	0.00	
8,400.0	6.00	256.00	8,399.5	-3.8	-15.2	2.00	2.00	0.00	256.00	
10,180.5	6.00	256.00	10,170.2	-48.8	-195.8	0.00	0.00	0.00	0.00	
11,128.7	89.00	90.11	10,801.0	-65.8	364.2	10.00	8.75	-17.49	-165.84	
15,496.0	89.00	90.11	10,877.0	-74.5	4,730.8	0.00	0.00	0.00	0.00	RR 7S 2H BHL

Planning Report

Database:	Midland District	Local Co-ordinate Reference:	Well RR 7 S 2H
Company:	OXY	TVD Reference:	KB @ 3637.2usft
Project:	Lea County, New Mexico	MD Reference:	KB @ 3637.2usft
Site:	Ridge Runner 7 State 2H	North Reference:	Grid
Well:	RR 7 S 2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Wellbore		
Design:	Plan #2		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00

Planning Report

Database:	Midland District	Local Co-ordinate Reference:	Well RR 7 S 2H
Company:	OXY	TVD Reference:	KB @ 3637.2usft
Project:	Lea County, New Mexico	MD Reference:	KB @ 3637.2usft
Site:	Ridge Runner 7 State 2H	North Reference:	Grid
Well:	RR 7 S 2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Wellbore		
Design:	Plan #2		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.0	0.00	0.00	0.00
5,500.0	0.00	0.00	5,500.0	0.0	0.0	0.0	0.00	0.00	0.00
5,600.0	0.00	0.00	5,600.0	0.0	0.0	0.0	0.00	0.00	0.00
5,700.0	0.00	0.00	5,700.0	0.0	0.0	0.0	0.00	0.00	0.00
5,800.0	0.00	0.00	5,800.0	0.0	0.0	0.0	0.00	0.00	0.00
5,900.0	0.00	0.00	5,900.0	0.0	0.0	0.0	0.00	0.00	0.00
6,000.0	0.00	0.00	6,000.0	0.0	0.0	0.0	0.00	0.00	0.00
6,100.0	0.00	0.00	6,100.0	0.0	0.0	0.0	0.00	0.00	0.00
6,200.0	0.00	0.00	6,200.0	0.0	0.0	0.0	0.00	0.00	0.00
6,300.0	0.00	0.00	6,300.0	0.0	0.0	0.0	0.00	0.00	0.00
6,400.0	0.00	0.00	6,400.0	0.0	0.0	0.0	0.00	0.00	0.00
6,500.0	0.00	0.00	6,500.0	0.0	0.0	0.0	0.00	0.00	0.00
6,600.0	0.00	0.00	6,600.0	0.0	0.0	0.0	0.00	0.00	0.00
6,700.0	0.00	0.00	6,700.0	0.0	0.0	0.0	0.00	0.00	0.00
6,800.0	0.00	0.00	6,800.0	0.0	0.0	0.0	0.00	0.00	0.00
6,900.0	0.00	0.00	6,900.0	0.0	0.0	0.0	0.00	0.00	0.00
7,000.0	0.00	0.00	7,000.0	0.0	0.0	0.0	0.00	0.00	0.00
7,100.0	0.00	0.00	7,100.0	0.0	0.0	0.0	0.00	0.00	0.00
7,200.0	0.00	0.00	7,200.0	0.0	0.0	0.0	0.00	0.00	0.00
7,300.0	0.00	0.00	7,300.0	0.0	0.0	0.0	0.00	0.00	0.00
7,400.0	0.00	0.00	7,400.0	0.0	0.0	0.0	0.00	0.00	0.00
7,500.0	0.00	0.00	7,500.0	0.0	0.0	0.0	0.00	0.00	0.00
7,600.0	0.00	0.00	7,600.0	0.0	0.0	0.0	0.00	0.00	0.00
7,700.0	0.00	0.00	7,700.0	0.0	0.0	0.0	0.00	0.00	0.00
7,800.0	0.00	0.00	7,800.0	0.0	0.0	0.0	0.00	0.00	0.00
7,900.0	0.00	0.00	7,900.0	0.0	0.0	0.0	0.00	0.00	0.00
8,000.0	0.00	0.00	8,000.0	0.0	0.0	0.0	0.00	0.00	0.00
8,100.0	0.00	0.00	8,100.0	0.0	0.0	0.0	0.00	0.00	0.00
8,200.0	2.00	256.00	8,200.0	-0.4	-1.7	-1.7	2.00	2.00	0.00
8,300.0	4.00	256.00	8,299.8	-1.7	-6.8	-6.7	2.00	2.00	0.00
8,400.0	6.00	256.00	8,399.5	-3.8	-15.2	-15.2	2.00	2.00	0.00
8,500.0	6.00	256.00	8,498.9	-6.3	-25.4	-25.3	0.00	0.00	0.00
8,600.0	6.00	256.00	8,598.4	-8.9	-35.5	-35.4	0.00	0.00	0.00
8,700.0	6.00	256.00	8,697.8	-11.4	-45.7	-45.5	0.00	0.00	0.00
8,800.0	6.00	256.00	8,797.3	-13.9	-55.8	-55.6	0.00	0.00	0.00
8,900.0	6.00	256.00	8,896.7	-16.4	-65.9	-65.7	0.00	0.00	0.00
9,000.0	6.00	256.00	8,996.2	-19.0	-76.1	-75.8	0.00	0.00	0.00
9,100.0	6.00	256.00	9,095.6	-21.5	-86.2	-85.9	0.00	0.00	0.00
9,200.0	6.00	256.00	9,195.1	-24.0	-96.4	-96.0	0.00	0.00	0.00
9,300.0	6.00	256.00	9,294.5	-26.6	-106.5	-106.1	0.00	0.00	0.00
9,400.0	6.00	256.00	9,394.0	-29.1	-116.7	-116.2	0.00	0.00	0.00
9,500.0	6.00	256.00	9,493.4	-31.6	-126.8	-126.3	0.00	0.00	0.00
9,600.0	6.00	256.00	9,592.9	-34.1	-136.9	-136.4	0.00	0.00	0.00
9,700.0	6.00	256.00	9,692.3	-36.7	-147.1	-146.5	0.00	0.00	0.00
9,800.0	6.00	256.00	9,791.8	-39.2	-157.2	-156.6	0.00	0.00	0.00
9,900.0	6.00	256.00	9,891.2	-41.7	-167.4	-166.7	0.00	0.00	0.00
10,000.0	6.00	256.00	9,990.7	-44.3	-177.5	-176.8	0.00	0.00	0.00
10,100.0	6.00	256.00	10,090.1	-46.8	-187.6	-186.9	0.00	0.00	0.00
10,180.5	6.00	256.00	10,170.2	-48.8	-195.8	-195.0	0.00	0.00	0.00
10,200.0	4.14	249.37	10,189.6	-49.3	-197.5	-196.7	10.00	-9.55	-33.99
10,250.0	1.85	142.43	10,239.6	-50.6	-198.7	-197.8	10.00	-4.57	-213.89
10,300.0	6.30	103.48	10,289.4	-51.9	-195.5	-194.7	10.00	8.90	-77.89
10,350.0	11.23	97.50	10,338.8	-53.1	-188.0	-187.1	10.00	9.85	-11.97
10,400.0	16.20	95.14	10,387.4	-54.4	-176.2	-175.3	10.00	9.94	-4.71

Planning Report

Database:	Midland District	Local Co-ordinate Reference:	Well RR 7-S 2H
Company:	OXY	TVD Reference:	KB @ 3637.2usft
Project:	Lea County, New Mexico	MD Reference:	KB @ 3637.2usft
Site:	Ridge Runner 7 State 2H	North Reference:	Grid
Well:	RR 7 S 2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Wellbore		
Design:	Plan #2		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
10,450.0	21.18	93.87	10,434.8	-55.6	-160.2	-159.4	10.00	9.97	-2.54	
10,500.0	26.17	93.07	10,480.5	-56.8	-140.2	-139.3	10.00	9.98	-1.60	
10,550.0	31.16	92.51	10,524.4	-58.0	-116.3	-115.3	10.00	9.99	-1.12	
10,600.0	36.16	92.10	10,566.0	-59.1	-88.6	-87.6	10.00	9.99	-0.84	
10,650.0	41.15	91.77	10,605.0	-60.2	-57.4	-56.4	10.00	9.99	-0.66	
10,700.0	46.15	91.50	10,641.2	-61.1	-22.9	-21.9	10.00	9.99	-0.54	
10,750.0	51.15	91.27	10,674.2	-62.0	14.6	15.6	10.00	9.99	-0.45	
10,800.0	56.14	91.07	10,703.8	-62.9	54.9	55.8	10.00	9.99	-0.39	
10,850.0	61.14	90.90	10,729.9	-63.6	97.5	98.5	10.00	10.00	-0.35	
10,900.0	66.14	90.74	10,752.1	-64.2	142.3	143.3	10.00	10.00	-0.32	
10,950.0	71.14	90.59	10,770.3	-64.8	188.9	189.9	10.00	10.00	-0.30	
11,000.0	76.14	90.45	10,784.3	-65.2	236.8	237.8	10.00	10.00	-0.28	
11,050.0	81.13	90.32	10,794.2	-65.5	285.8	286.8	10.00	10.00	-0.27	
11,100.0	86.13	90.19	10,799.7	-65.8	335.5	336.5	10.00	10.00	-0.26	
11,128.7	89.00	90.11	10,801.0	-65.8	364.2	365.2	10.00	10.00	-0.26	
11,200.0	89.00	90.11	10,802.2	-66.0	435.5	436.5	0.00	0.00	0.00	
11,300.0	89.00	90.11	10,803.9	-66.2	535.5	536.4	0.00	0.00	0.00	
11,400.0	89.00	90.11	10,805.7	-66.4	635.4	636.4	0.00	0.00	0.00	
11,500.0	89.00	90.11	10,807.4	-66.6	735.4	736.4	0.00	0.00	0.00	
11,600.0	89.00	90.11	10,809.2	-66.8	835.4	836.4	0.00	0.00	0.00	
11,700.0	89.00	90.11	10,810.9	-67.0	935.4	936.3	0.00	0.00	0.00	
11,800.0	89.00	90.11	10,812.6	-67.2	1,035.4	1,036.3	0.00	0.00	0.00	
11,900.0	89.00	90.11	10,814.4	-67.4	1,135.4	1,136.3	0.00	0.00	0.00	
12,000.0	89.00	90.11	10,816.1	-67.6	1,235.3	1,236.3	0.00	0.00	0.00	
12,100.0	89.00	90.11	10,817.9	-67.8	1,335.3	1,336.2	0.00	0.00	0.00	
12,200.0	89.00	90.11	10,819.6	-68.0	1,435.3	1,436.2	0.00	0.00	0.00	
12,300.0	89.00	90.11	10,821.3	-68.2	1,535.3	1,536.2	0.00	0.00	0.00	
12,400.0	89.00	90.11	10,823.1	-68.4	1,635.3	1,636.2	0.00	0.00	0.00	
12,500.0	89.00	90.11	10,824.8	-68.6	1,735.3	1,736.1	0.00	0.00	0.00	
12,600.0	89.00	90.11	10,826.6	-68.8	1,835.3	1,836.1	0.00	0.00	0.00	
12,700.0	89.00	90.11	10,828.3	-69.0	1,935.2	1,936.1	0.00	0.00	0.00	
12,800.0	89.00	90.11	10,830.1	-69.2	2,035.2	2,036.1	0.00	0.00	0.00	
12,900.0	89.00	90.11	10,831.8	-69.4	2,135.2	2,136.0	0.00	0.00	0.00	
13,000.0	89.00	90.11	10,833.5	-69.6	2,235.2	2,236.0	0.00	0.00	0.00	
13,100.0	89.00	90.11	10,835.3	-69.8	2,335.2	2,336.0	0.00	0.00	0.00	
13,200.0	89.00	90.11	10,837.0	-70.0	2,435.2	2,436.0	0.00	0.00	0.00	
13,300.0	89.00	90.11	10,838.8	-70.2	2,535.1	2,535.9	0.00	0.00	0.00	
13,400.0	89.00	90.11	10,840.5	-70.4	2,635.1	2,635.9	0.00	0.00	0.00	
13,500.0	89.00	90.11	10,842.2	-70.6	2,735.1	2,735.9	0.00	0.00	0.00	
13,600.0	89.00	90.11	10,844.0	-70.8	2,835.1	2,835.9	0.00	0.00	0.00	
13,700.0	89.00	90.11	10,845.7	-71.0	2,935.1	2,935.8	0.00	0.00	0.00	
13,800.0	89.00	90.11	10,847.5	-71.2	3,035.1	3,035.8	0.00	0.00	0.00	
13,900.0	89.00	90.11	10,849.2	-71.4	3,135.1	3,135.8	0.00	0.00	0.00	
14,000.0	89.00	90.11	10,851.0	-71.6	3,235.0	3,235.8	0.00	0.00	0.00	
14,100.0	89.00	90.11	10,852.7	-71.8	3,335.0	3,335.7	0.00	0.00	0.00	
14,200.0	89.00	90.11	10,854.4	-72.0	3,435.0	3,435.7	0.00	0.00	0.00	
14,300.0	89.00	90.11	10,856.2	-72.2	3,535.0	3,535.7	0.00	0.00	0.00	
14,400.0	89.00	90.11	10,857.9	-72.4	3,635.0	3,635.7	0.00	0.00	0.00	
14,500.0	89.00	90.11	10,859.7	-72.6	3,735.0	3,735.6	0.00	0.00	0.00	
14,600.0	89.00	90.11	10,861.4	-72.8	3,834.9	3,835.6	0.00	0.00	0.00	
14,700.0	89.00	90.11	10,863.1	-73.0	3,934.9	3,935.6	0.00	0.00	0.00	
14,800.0	89.00	90.11	10,864.9	-73.2	4,034.9	4,035.6	0.00	0.00	0.00	
14,900.0	89.00	90.11	10,866.6	-73.4	4,134.9	4,135.5	0.00	0.00	0.00	
15,000.0	89.00	90.11	10,868.4	-73.6	4,234.9	4,235.5	0.00	0.00	0.00	

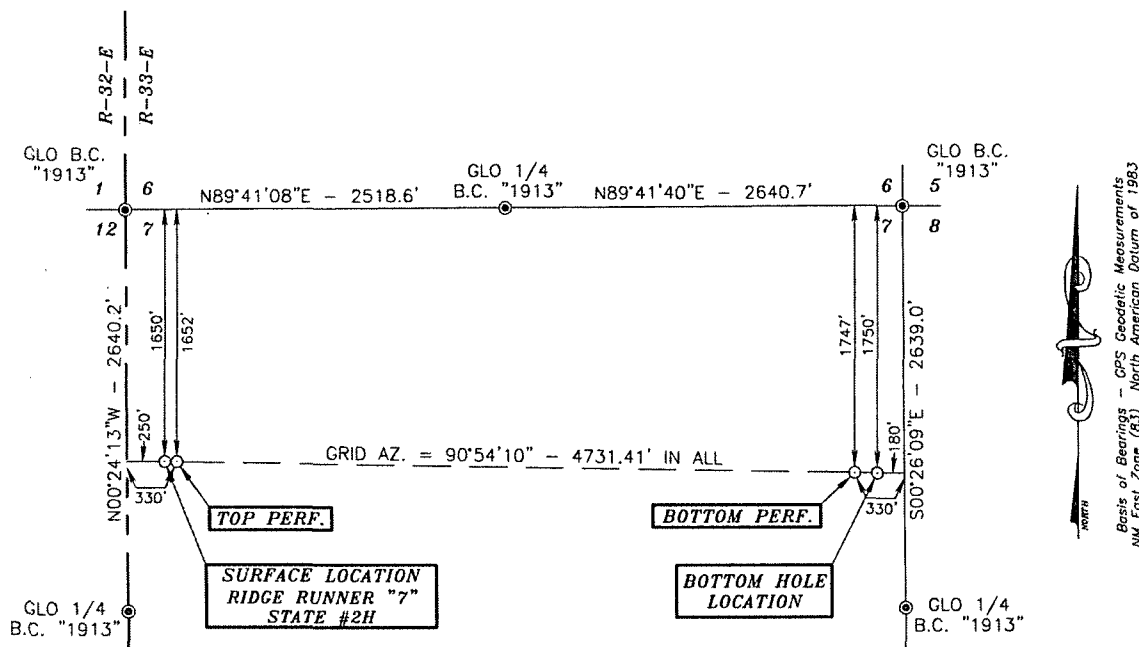
Planning Report

Database:	Midland District	Local Co-ordinate Reference:	Well RR 7 S 2H
Company:	OXY	TVD Reference:	KB @ 3637.2usft
Project:	Lea County, New Mexico	MD Reference:	KB @ 3637.2usft
Site:	Ridge Runner 7 State 2H	North Reference:	Grid
Well:	RR 7 S 2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Wellbore		
Design:	Plan #2		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
15,100.0	89.00	90.11	10,870.1	-73.8	4,334.9	4,335.5	0.00	0.00	0.00	
15,200.0	89.00	90.11	10,871.8	-73.9	4,434.9	4,435.5	0.00	0.00	0.00	
15,300.0	89.00	90.11	10,873.6	-74.1	4,534.8	4,535.4	0.00	0.00	0.00	
15,400.0	89.00	90.11	10,875.3	-74.3	4,634.8	4,635.4	0.00	0.00	0.00	
15,496.0	89.00	90.11	10,877.0	-74.5	4,730.8	4,731.4	0.00	0.00	0.00	

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
RR 7S 2H FTP	0.00	0.00	10,801.0	-1.3	80.0	513,235.12	720,680.78	32° 24' 32.286 N	103° 37' 5.749 W	
- hit/miss target										
- Shape										
- plan misses target center by 94.7usft at 10865.1usft MD (10737.0 TVD, -63.8 N, 110.8 E)										
- Point										
RR 7S 2H LTP	0.00	0.00	10,874.0	-72.2	4,580.8	513,164.20	725,181.55	32° 24' 31.283 N	103° 36' 13.256 W	
- plan misses target center by 2.1usft at 15345.9usft MD (10874.4 TVD, -74.2 N, 4580.8 E)										
- Point										
RR 7S 2H BHL	0.00	0.00	10,877.0	-74.5	4,730.8	513,161.84	725,331.57	32° 24' 31.250 N	103° 36' 11.507 W	
- plan hits target center										
- Point										

SECTION 7, TOWNSHIP 22 SOUTH, RANGE 33 EAST, N.M.P.M.,
LEA COUNTY
NEW MEXICO



DIRECTIONS:
BEGINNING AT THE INTERSECTION OF HWY. #128
AND COUNTY ROAD #798 (RED ROAD), GO NORTH
ON COUNTY ROAD #798 FOR 7.3 MILES, TURN
RIGHT AND GO NORTHEAST ON CALICHE ROAD FOR
2.7 MILES, CONTINUE EAST SOUTHEAST FOR 2.5
MILES, CONTINUE NORTHEAST FOR 2.0 MILES,
TURN LEFT AND GO NORTH FOR 1.2 MILES, TURN
RIGHT AND GO EAST FOR 0.7 MILES, TURN LEFT
AND GO NORTH FOR 0.2 MILES, TURN RIGHT AND
GO EAST FOR 0.8 MILES, TURN RIGHT AND GO
SOUTH FOR 0.6 MILES, TURN LEFT AND GO EAST
FOR 0.1 MILES, TURN LEFT ON PROPOSED ROAD
AND GO NORTH FOR 902.1 FEET, TURN RIGHT
AND GO EAST FOR 86.3 FEET, TURN LEFT AND GO
NORTH FOR 2010.1 FEET TO LOCATION.

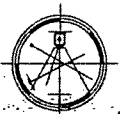


SURVEYORS CERTIFICATE

I, TERRY J. ASEL, NEW MEXICO PROFESSIONAL SURVEYOR
NO. 15079, DO HEREBY CERTIFY THAT I CONDUCTED AND AM
RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS
TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND
BELIEF, AND MEETS THE "MINIMUM STANDARDS FOR
SURVEYING IN NEW MEXICO" AS ADOPTED BY THE NEW
MEXICO STATE BOARD OF REGISTRATION FOR
PROFESSIONAL ENGINEERS AND SURVEYORS.

Terry J. Asel 10/17/2014
Terry J. Asel, N.M. R.P.L.S. No. 15079

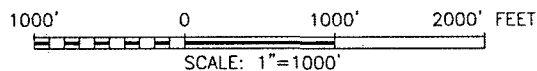
Asel Surveying



P.O. BOX 393 - 310 W. TAYLOR
HOBBS, NEW MEXICO - 575-393-9146

LEGEND

● - DENOTES FOUND MONUMENT AS NOTED

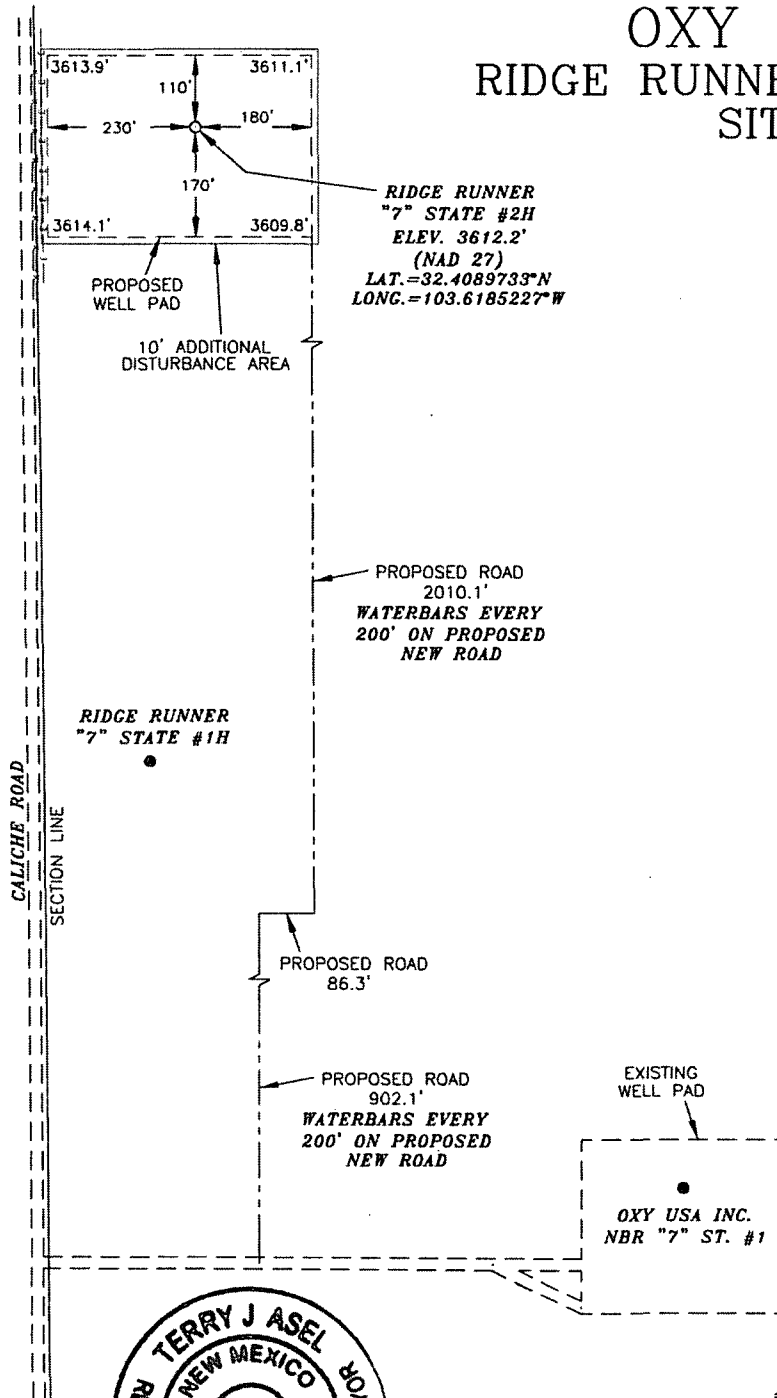


OXY USA INC.

RIDGE RUNNER "7" STATE #2H LOCATED AT
1650' FNL & 250' FWL IN SECTION 7,
TOWNSHIP 22 SOUTH, RANGE 33 EAST,
N.M.P.M., LEA COUNTY, NEW MEXICO

Survey Date: 06/24/14	Sheet 1 of 1 Sheets
W.O. Number: 140624WL-a (Rev. A)	Drawn By: KA Rev: A
Date: 10/16/14	Scale: 1"=1000'

OXY USA INC. RIDGE RUNNER "7" STATE #2H SITE PLAN



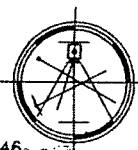
SURVEYORS CERTIFICATE

I, TERRY J. ASEL, NEW MEXICO PROFESSIONAL LAND SURVEYOR NO. 15079, DO HEREBY CERTIFY THAT I CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND MEETS THE "MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO" AS ADOPTED BY THE NEW MEXICO STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND SURVEYORS.

Terry J. Asel 8/1/2014
Terry J. Asel N.M. R.P.L.S. No. 15079

Asel Surveying

P.O. BOX 393 - 310 W. TAYLOR
HOBBS, NEW MEXICO - 575-393-9146



LEGEND

--- DENOTES PROPOSED WELL PAD
--- DENOTES PROPOSED ROAD

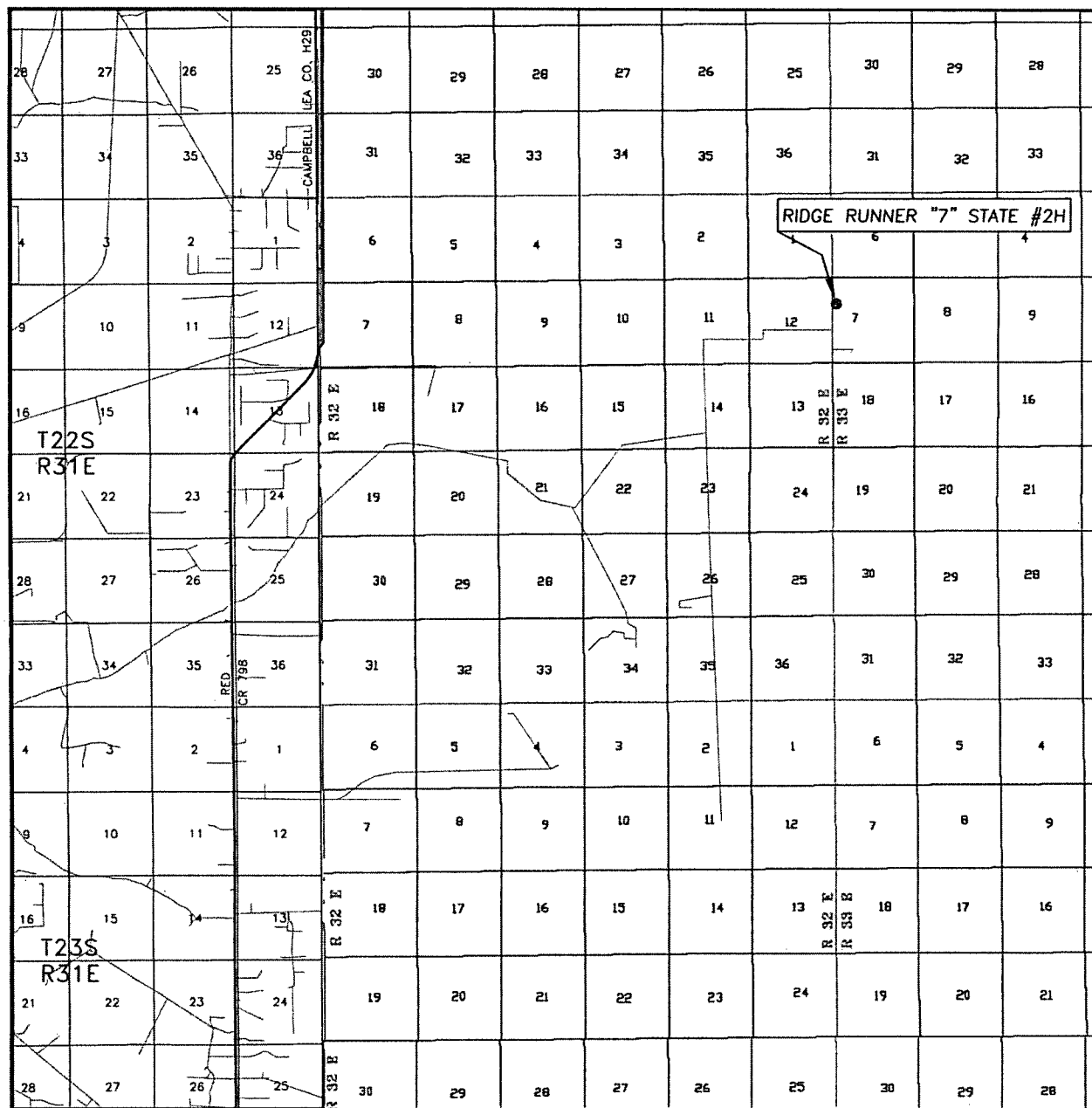
300' 0 300' 600' FEET
SCALE: 1"=300'

OXY USA INC.

RIDGE RUNNER "7" STATE #2H WELL PAD
LOCATED AT 1650' FNL & 250' FWL IN
SECTION 7, TOWNSHIP 22 SOUTH, RANGE 33
EAST, N.M.P.M., LEA COUNTY, NEW MEXICO

Survey Date: 06/24/14	Sheet 1 of 1 Sheets
W.O. Number: 140624WL-a	Drawn By: KA Rev:
Date: 07/25/14	140624WL-a Scale: 1"=300'

VICINITY MAP

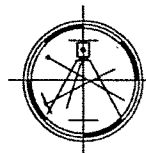


SEC. 7 TWP. 22-S RGE. 33-E
 SURVEY N.M.P.M.
 COUNTY LEA
 DESCRIPTION 1650' FNL & 250' FWL
 ELEVATION 3612.2'
 OPERATOR OXY USA INC.

SCALE: 1" = 2 MILES

Asel Surveying

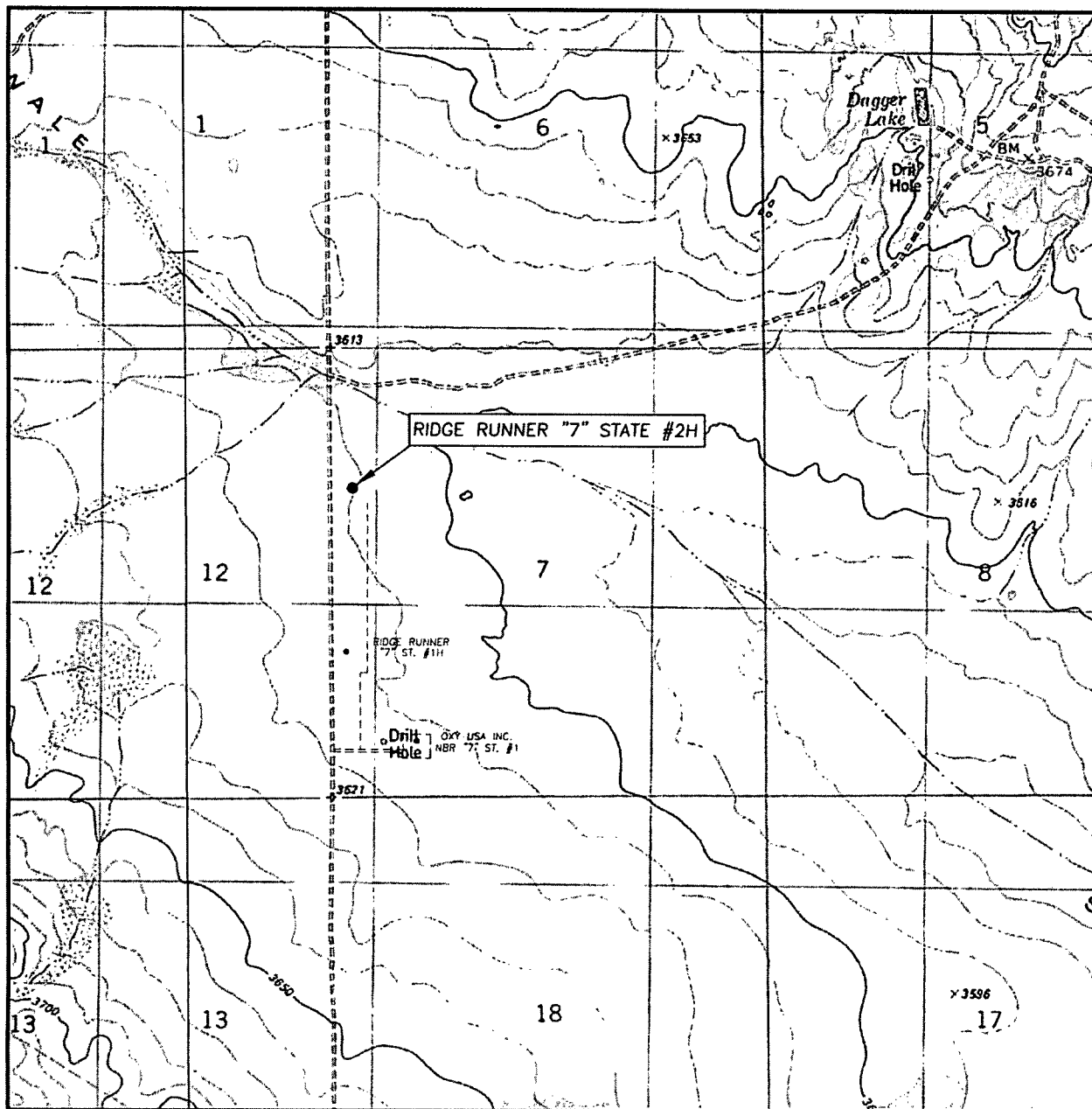
P.O. BOX 393 - 310 W. TAYLOR
 HOBBS, NEW MEXICO - 575-393-9146



LEASERIDGE RUNNER "7" STATE #2H

DIRECTIONS BEGINNING AT THE INTERSECTION OF HWY. #128 AND COUNTY ROAD #798 (RED ROAD), GO NORTH ON COUNTY ROAD #798 FOR 7.3 MILES, TURN RIGHT AND GO NORTHEAST ON CALICHE ROAD FOR 2.7 MILES, CONTINUE EAST SOUTHEAST FOR 2.5 MILES, CONTINUE NORTHEAST FOR 2.0 MILES, TURN LEFT AND GO NORTH FOR 1.2 MILES, TURN RIGHT AND AND GO EAST FOR 0.7 MILES, TURN LEFT AND GO NORTH FOR 0.2 MILES, TURN RIGHT AND GO EAST FOR 0.8 MILES, TURN RIGHT AND GO SOUTH FOR 0.6 MILES, TURN LEFT AND GO EAST FOR 0.1 MILES, TURN LEFT ON PROPOSED ROAD AND GO NORTH FOR 902.1 FEET, TURN RIGHT AND GO EAST FOR 86.3 FEET, TURN LEFT AND GO NORTH FOR 2010.1 FEET TO LOCATION.

LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL: 10'

SEC. 7 TWP. 22-S RGE. 33-E

SURVEY N.M.P.M.

COUNTY LEA

DESCRIPTION 1650' FNL & 250' FWL

ELEVATION 3612.2'

OPERATOR OXY USA INC.

LEASE RIDGE RUNNER "7" STATE #2H

U.S.G.S. TOPOGRAPHIC MAP
GRAMA RIDGE, N.M.

Asel Surveying

P.O. BOX 393 - 310 W. TAYLOR
HOBBS, NEW MEXICO - 575-393-9146

