



30-025-41498

Scientific Drilling

Planning Report



Database:	CompassC	Local Co-ordinate Reference:	Well Anderson 35 2H
Company:	OXY	TVD Reference:	KB @ 3712.00usft
Project:	Lea County, New Mexico	MD Reference:	KB @ 3712.00usft
Site:	Anderson 35 2H	North Reference:	Grid
Well:	Anderson 35 2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Pilot Wellbore		
Design:	PilotDesign #1		

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:	Anderson 35 2H		
Site Position:		Northing:	520,711.10 usft
From:	Map	Easting:	709,885.60 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32.430
		Longitude:	-103.653
		Grid Convergence:	0.36 °

Well	Anderson 35 2H		
Well Position	+N/-S	0.00 usft	Northing:
	+E/-W	0.00 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft
		Latitude:	32.430
		Longitude:	-103.653
		Ground Level:	3,687.90 usft

Wellbore	Pilot Wellbore		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF2010	10/28/2013	7.35
			Dip Angle
			(°)
			60.30
			Field Strength
			(nT)
			48,492

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

Plan Sections										
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Dogleg Rate	Build Rate	Turn Rate	TFO	Target
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)	(°)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
11,900.00	0.00	0.00	11,900.00	0.00	0.00	0.00	0.00	0.00	0.00	



Scientific Drilling

Planning Report



Database:	CompassC	Local Co-ordinate Reference:	Well Anderson 35 2H
Company:	OXY	TVD Reference:	KB @ 3712.00usft
Project:	Lea County, New Mexico	MD Reference:	KB @ 3712.00usft
Site:	Anderson 35 2H	North Reference:	Grid
Well:	Anderson 35 2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Pilot Wellbore		
Design:	PilotDesign #1		

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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00



Scientific Drilling

Planning Report

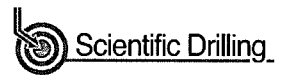


Database:	CompassC	Local Co-ordinate Reference:	Well Anderson 35 2H
Company:	OXY	TVD Reference:	KB @ 3712.00usft
Project:	Lea County, New Mexico	MD Reference:	KB @ 3712.00usft
Site:	Anderson 35 2H	North Reference:	Grid
Well:	Anderson 35 2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Pilot Wellbore		
Design:	PilotDesign #1		

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)
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00
5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	0.00	0.00	0.00
5,700.00	0.00	0.00	5,700.00	0.00	0.00	0.00	0.00	0.00	0.00
5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	0.00	0.00	0.00
5,900.00	0.00	0.00	5,900.00	0.00	0.00	0.00	0.00	0.00	0.00
6,000.00	0.00	0.00	6,000.00	0.00	0.00	0.00	0.00	0.00	0.00
6,100.00	0.00	0.00	6,100.00	0.00	0.00	0.00	0.00	0.00	0.00
6,200.00	0.00	0.00	6,200.00	0.00	0.00	0.00	0.00	0.00	0.00
6,300.00	0.00	0.00	6,300.00	0.00	0.00	0.00	0.00	0.00	0.00
6,400.00	0.00	0.00	6,400.00	0.00	0.00	0.00	0.00	0.00	0.00
6,500.00	0.00	0.00	6,500.00	0.00	0.00	0.00	0.00	0.00	0.00
6,600.00	0.00	0.00	6,600.00	0.00	0.00	0.00	0.00	0.00	0.00
6,700.00	0.00	0.00	6,700.00	0.00	0.00	0.00	0.00	0.00	0.00
6,800.00	0.00	0.00	6,800.00	0.00	0.00	0.00	0.00	0.00	0.00
6,900.00	0.00	0.00	6,900.00	0.00	0.00	0.00	0.00	0.00	0.00
7,000.00	0.00	0.00	7,000.00	0.00	0.00	0.00	0.00	0.00	0.00
7,100.00	0.00	0.00	7,100.00	0.00	0.00	0.00	0.00	0.00	0.00
7,200.00	0.00	0.00	7,200.00	0.00	0.00	0.00	0.00	0.00	0.00
7,300.00	0.00	0.00	7,300.00	0.00	0.00	0.00	0.00	0.00	0.00
7,400.00	0.00	0.00	7,400.00	0.00	0.00	0.00	0.00	0.00	0.00
7,500.00	0.00	0.00	7,500.00	0.00	0.00	0.00	0.00	0.00	0.00
7,600.00	0.00	0.00	7,600.00	0.00	0.00	0.00	0.00	0.00	0.00
7,700.00	0.00	0.00	7,700.00	0.00	0.00	0.00	0.00	0.00	0.00
7,800.00	0.00	0.00	7,800.00	0.00	0.00	0.00	0.00	0.00	0.00
7,900.00	0.00	0.00	7,900.00	0.00	0.00	0.00	0.00	0.00	0.00
8,000.00	0.00	0.00	8,000.00	0.00	0.00	0.00	0.00	0.00	0.00
8,100.00	0.00	0.00	8,100.00	0.00	0.00	0.00	0.00	0.00	0.00
8,200.00	0.00	0.00	8,200.00	0.00	0.00	0.00	0.00	0.00	0.00
8,300.00	0.00	0.00	8,300.00	0.00	0.00	0.00	0.00	0.00	0.00
8,400.00	0.00	0.00	8,400.00	0.00	0.00	0.00	0.00	0.00	0.00
8,500.00	0.00	0.00	8,500.00	0.00	0.00	0.00	0.00	0.00	0.00
8,600.00	0.00	0.00	8,600.00	0.00	0.00	0.00	0.00	0.00	0.00
8,700.00	0.00	0.00	8,700.00	0.00	0.00	0.00	0.00	0.00	0.00
8,800.00	0.00	0.00	8,800.00	0.00	0.00	0.00	0.00	0.00	0.00
8,900.00	0.00	0.00	8,900.00	0.00	0.00	0.00	0.00	0.00	0.00
9,000.00	0.00	0.00	9,000.00	0.00	0.00	0.00	0.00	0.00	0.00
9,100.00	0.00	0.00	9,100.00	0.00	0.00	0.00	0.00	0.00	0.00
9,200.00	0.00	0.00	9,200.00	0.00	0.00	0.00	0.00	0.00	0.00
9,300.00	0.00	0.00	9,300.00	0.00	0.00	0.00	0.00	0.00	0.00
9,400.00	0.00	0.00	9,400.00	0.00	0.00	0.00	0.00	0.00	0.00
9,500.00	0.00	0.00	9,500.00	0.00	0.00	0.00	0.00	0.00	0.00
9,600.00	0.00	0.00	9,600.00	0.00	0.00	0.00	0.00	0.00	0.00
9,700.00	0.00	0.00	9,700.00	0.00	0.00	0.00	0.00	0.00	0.00
9,800.00	0.00	0.00	9,800.00	0.00	0.00	0.00	0.00	0.00	0.00
9,900.00	0.00	0.00	9,900.00	0.00	0.00	0.00	0.00	0.00	0.00
10,000.00	0.00	0.00	10,000.00	0.00	0.00	0.00	0.00	0.00	0.00
10,100.00	0.00	0.00	10,100.00	0.00	0.00	0.00	0.00	0.00	0.00
10,200.00	0.00	0.00	10,200.00	0.00	0.00	0.00	0.00	0.00	0.00
10,300.00	0.00	0.00	10,300.00	0.00	0.00	0.00	0.00	0.00	0.00
10,400.00	0.00	0.00	10,400.00	0.00	0.00	0.00	0.00	0.00	0.00
10,500.00	0.00	0.00	10,500.00	0.00	0.00	0.00	0.00	0.00	0.00
10,600.00	0.00	0.00	10,600.00	0.00	0.00	0.00	0.00	0.00	0.00
10,700.00	0.00	0.00	10,700.00	0.00	0.00	0.00	0.00	0.00	0.00



Scientific Drilling
Planning Report



Database:	CompassC	Local Co-ordinate Reference:	Well Anderson 35 2H
Company:	OXY	TVD Reference:	KB @ 3712.00usft
Project:	Lea County, New Mexico	MD Reference:	KB @ 3712.00usft
Site:	Anderson 35 2H	North Reference:	Grid
Well:	Anderson 35 2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Pilot Wellbore		
Design:	PilotDesign #1		

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)	
10,800.00	0.00	0.00	10,800.00	0.00	0.00	0.00	0.00	0.00	0.00	
10,900.00	0.00	0.00	10,900.00	0.00	0.00	0.00	0.00	0.00	0.00	
11,000.00	0.00	0.00	11,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
11,100.00	0.00	0.00	11,100.00	0.00	0.00	0.00	0.00	0.00	0.00	
11,200.00	0.00	0.00	11,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
11,300.00	0.00	0.00	11,300.00	0.00	0.00	0.00	0.00	0.00	0.00	
11,400.00	0.00	0.00	11,400.00	0.00	0.00	0.00	0.00	0.00	0.00	
11,500.00	0.00	0.00	11,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
11,600.00	0.00	0.00	11,600.00	0.00	0.00	0.00	0.00	0.00	0.00	
11,700.00	0.00	0.00	11,700.00	0.00	0.00	0.00	0.00	0.00	0.00	
11,800.00	0.00	0.00	11,800.00	0.00	0.00	0.00	0.00	0.00	0.00	
11,900.00	0.00	0.00	11,900.00	0.00	0.00	0.00	0.00	0.00	0.00	



Anderson 35 2H
Lea County, New Mexico
Northing: 520711.10
Easting: 709885.60
Design #1



To convert a Magnetic Direction to a Grid Direction, Add 6.98°
To convert a True Direction to a Grid Direction, Subtract 0.36°

Azimuths to Grid North
True North: -0.36°
Magnetic North: 6.98°

Magnetic Field
Strength: 48492.2snT
Dip Angle: 60.30°
Date: 10/28/2013
Model: IGRF2010



KB @ 3712.00
Gr@ 3687.90

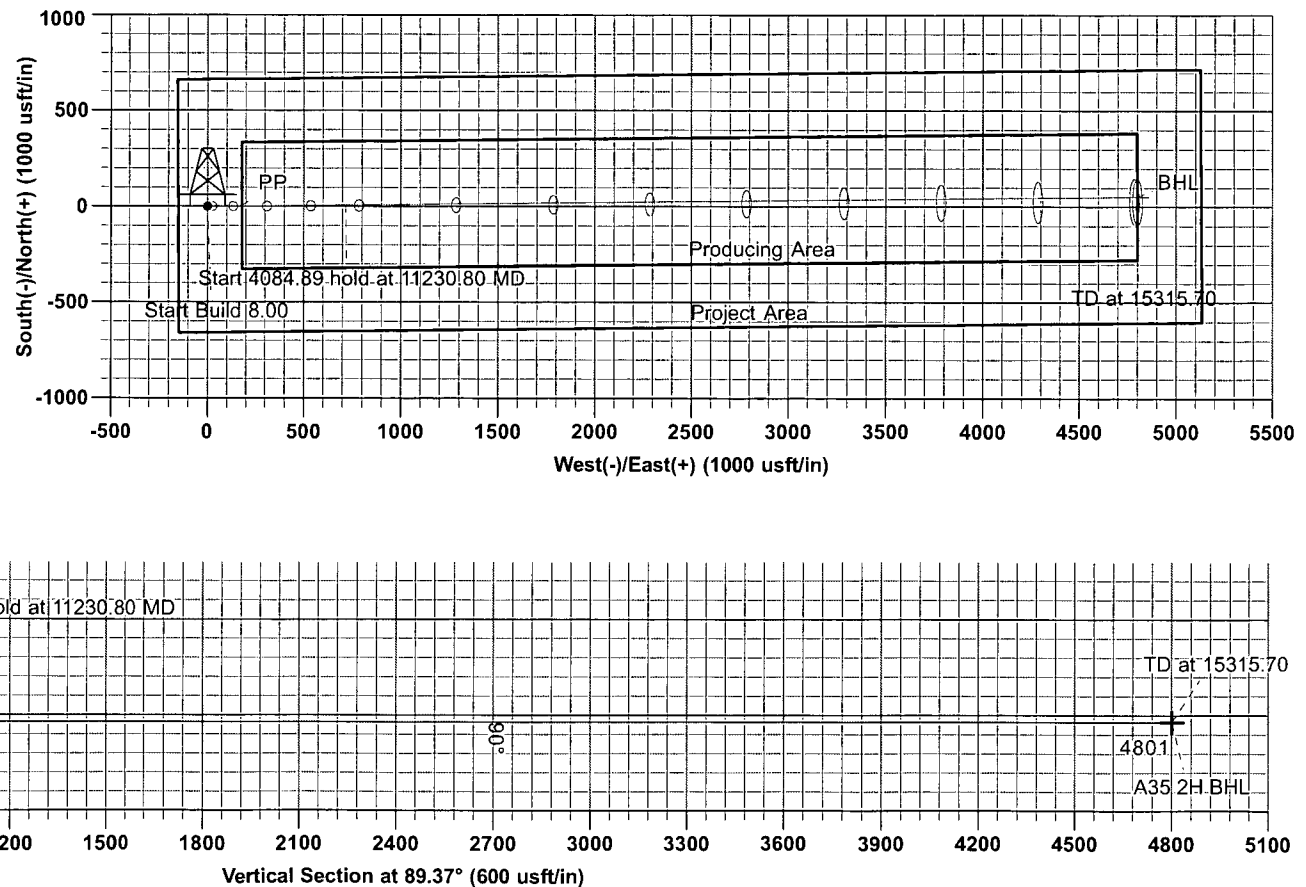
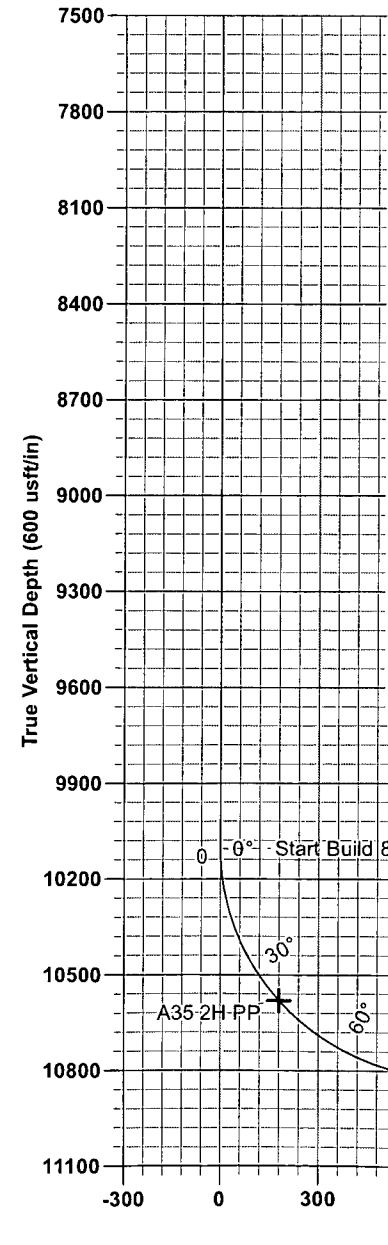
WELL DETAILS Anderson 35 2H					
Ground Level: 3687.90					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	520711.10	709885.60	32.430	-103.653

DESIGN TARGET DETAILS					
Name	TVD	+N/-S	+E/-W	Northing	Easting
A35 2H PP	10580.61	2.00	180.00	520713.10	710065.60
A35 2H BHL	10822.00	52.90	4800.80	520764.00	714686.40

SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10105.80	0.00	0.00	10105.80	0.00	0.00	0.00	0.00	0.00	
11230.80	90.00	89.37	10822.00	7.89	716.15	8.00	89.37	716.20	
15315.70	90.00	89.37	10822.00	52.90	4800.80	0.00	0.00	4801.09	A35 2H BHL

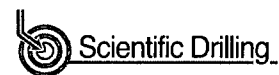
PROJECT DETAILS:	
Lea County, New Mexico	
Geodetic System: US State Plane 1927 (Exact solution)	
Datum: NAD 1927 (NADCON CONUS)	
Ellipsoid: Clarke 1866	
Zone: New Mexico East 3001	
System Datum: Mean Sea Level	

SITE DETAILS: Anderson 35 2H	
Site Centre Northing: 520711.10	
Easting: 709885.60	
Positional Uncertainty: 0.00	
Convergence: 0.36	
Local North: Grid	





Scientific Drilling
Planning Report



Database:	CompassC	Local Co-ordinate Reference:	Well Anderson 35 2H
Company:	OXY	TVD Reference:	KB @ 3712.00usft
Project:	Lea County, New Mexico	MD Reference:	KB @ 3712.00usft
Site:	Anderson 35 2H	North Reference:	Grid
Well:	Anderson 35 2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

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	Anderson 35 2H			
Site Position:		Northing:	520,711.10 usft	Latitude: 32.430
From:	Map	Easting:	709,885.60 usft	Longitude: -103.653
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence: 0.36 °

Well	Anderson 35 2H			
Well Position	+N/-S	0.00 usft	Northing:	520,711.10 usft
	+E/-W	0.00 usft	Easting:	709,885.60 usft
Position Uncertainty	0.00 usft		Wellhead Elevation:	0.00 usft
			Ground Level:	3,687.90 usft

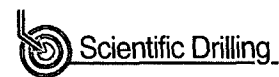
Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	10/28/2013	7.35	60.30	48,492

Design	Design #1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	89.37

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10,105.80	0.00	0.00	10,105.80	0.00	0.00	0.00	0.00	0.00	0.00	
11,230.80	90.00	89.37	10,822.00	7.89	716.15	8.00	8.00	0.00	89.37	
15,315.70	90.00	89.37	10,822.00	52.90	4,800.80	0.00	0.00	0.00	0.00	A35 2H BHL



Scientific Drilling
Planning Report



Database:	CompassC	Local Co-ordinate Reference:	Well Anderson 35 2H
Company:	OXY	TVD Reference:	KB @ 3712.00usft
Project:	Lea County, New Mexico	MD Reference:	KB @ 3712.00usft
Site:	Anderson 35 2H	North Reference:	Grid
Well:	Anderson 35 2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00



Scientific Drilling
Planning Report



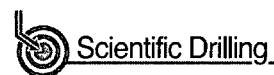
Database:	CompassC	Local Co-ordinate Reference:	Well Anderson 35 2H
Company:	OXY	TVD Reference:	KB @ 3712.00usft
Project:	Lea County, New Mexico	MD Reference:	KB @ 3712.00usft
Site:	Anderson 35 2H	North Reference:	Grid
Well:	Anderson 35 2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

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)	
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,700.00	0.00	0.00	5,700.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,900.00	0.00	0.00	5,900.00	0.00	0.00	0.00	0.00	0.00	0.00	
6,000.00	0.00	0.00	6,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
6,100.00	0.00	0.00	6,100.00	0.00	0.00	0.00	0.00	0.00	0.00	
6,200.00	0.00	0.00	6,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
6,300.00	0.00	0.00	6,300.00	0.00	0.00	0.00	0.00	0.00	0.00	
6,400.00	0.00	0.00	6,400.00	0.00	0.00	0.00	0.00	0.00	0.00	
6,500.00	0.00	0.00	6,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
6,600.00	0.00	0.00	6,600.00	0.00	0.00	0.00	0.00	0.00	0.00	
6,700.00	0.00	0.00	6,700.00	0.00	0.00	0.00	0.00	0.00	0.00	
6,800.00	0.00	0.00	6,800.00	0.00	0.00	0.00	0.00	0.00	0.00	
6,900.00	0.00	0.00	6,900.00	0.00	0.00	0.00	0.00	0.00	0.00	
7,000.00	0.00	0.00	7,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
7,100.00	0.00	0.00	7,100.00	0.00	0.00	0.00	0.00	0.00	0.00	
7,200.00	0.00	0.00	7,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
7,300.00	0.00	0.00	7,300.00	0.00	0.00	0.00	0.00	0.00	0.00	
7,400.00	0.00	0.00	7,400.00	0.00	0.00	0.00	0.00	0.00	0.00	
7,500.00	0.00	0.00	7,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
7,600.00	0.00	0.00	7,600.00	0.00	0.00	0.00	0.00	0.00	0.00	
7,700.00	0.00	0.00	7,700.00	0.00	0.00	0.00	0.00	0.00	0.00	
7,800.00	0.00	0.00	7,800.00	0.00	0.00	0.00	0.00	0.00	0.00	
7,900.00	0.00	0.00	7,900.00	0.00	0.00	0.00	0.00	0.00	0.00	
8,000.00	0.00	0.00	8,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
8,100.00	0.00	0.00	8,100.00	0.00	0.00	0.00	0.00	0.00	0.00	
8,200.00	0.00	0.00	8,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
8,300.00	0.00	0.00	8,300.00	0.00	0.00	0.00	0.00	0.00	0.00	
8,400.00	0.00	0.00	8,400.00	0.00	0.00	0.00	0.00	0.00	0.00	
8,500.00	0.00	0.00	8,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
8,600.00	0.00	0.00	8,600.00	0.00	0.00	0.00	0.00	0.00	0.00	
8,700.00	0.00	0.00	8,700.00	0.00	0.00	0.00	0.00	0.00	0.00	
8,800.00	0.00	0.00	8,800.00	0.00	0.00	0.00	0.00	0.00	0.00	
8,900.00	0.00	0.00	8,900.00	0.00	0.00	0.00	0.00	0.00	0.00	
9,000.00	0.00	0.00	9,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
9,100.00	0.00	0.00	9,100.00	0.00	0.00	0.00	0.00	0.00	0.00	
9,200.00	0.00	0.00	9,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
9,300.00	0.00	0.00	9,300.00	0.00	0.00	0.00	0.00	0.00	0.00	
9,400.00	0.00	0.00	9,400.00	0.00	0.00	0.00	0.00	0.00	0.00	
9,500.00	0.00	0.00	9,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
9,600.00	0.00	0.00	9,600.00	0.00	0.00	0.00	0.00	0.00	0.00	
9,700.00	0.00	0.00	9,700.00	0.00	0.00	0.00	0.00	0.00	0.00	
9,800.00	0.00	0.00	9,800.00	0.00	0.00	0.00	0.00	0.00	0.00	
9,900.00	0.00	0.00	9,900.00	0.00	0.00	0.00	0.00	0.00	0.00	
10,000.00	0.00	0.00	10,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
10,105.80	0.00	0.00	10,105.80	0.00	0.00	0.00	0.00	0.00	0.00	
10,150.00	3.54	89.37	10,149.97	0.02	1.36	1.36	8.00	8.00	0.00	
10,200.00	7.54	89.37	10,199.73	0.07	6.19	6.19	8.00	8.00	0.00	
10,250.00	11.54	89.37	10,249.03	0.16	14.47	14.47	8.00	8.00	0.00	
10,300.00	15.54	89.37	10,297.63	0.29	26.17	26.17	8.00	8.00	0.00	
10,350.00	19.54	89.37	10,345.30	0.45	41.23	41.23	8.00	8.00	0.00	
10,400.00	23.54	89.37	10,391.80	0.66	59.58	59.58	8.00	8.00	0.00	



Scientific Drilling

Planning Report



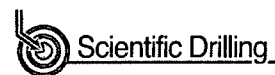
Database:	CompassC	Local Co-ordinate Reference:	Well Anderson 35 2H
Company:	OXY	TVD Reference:	KB @ 3712.00usft
Project:	Lea County, New Mexico	MD Reference:	KB @ 3712.00usft
Site:	Anderson 35 2H	North Reference:	Grid
Well:	Anderson 35 2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

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)	
10,450.00	27.54	89.37	10,436.90	0.89	81.12	81.13	8.00	8.00	0.00	
10,500.00	31.54	89.37	10,480.40	1.17	105.77	105.77	8.00	8.00	0.00	
10,550.00	35.54	89.37	10,522.06	1.47	133.38	133.39	8.00	8.00	0.00	
10,600.00	39.54	89.37	10,561.71	1.81	163.84	163.85	8.00	8.00	0.00	
10,650.00	43.54	89.37	10,599.12	2.17	196.98	196.99	8.00	8.00	0.00	
10,700.00	47.54	89.37	10,634.14	2.56	232.66	232.67	8.00	8.00	0.00	
10,750.00	51.54	89.37	10,666.58	2.98	270.69	270.70	8.00	8.00	0.00	
10,800.00	55.54	89.37	10,696.29	3.43	310.89	310.91	8.00	8.00	0.00	
10,850.00	59.54	89.37	10,723.13	3.89	353.06	353.09	8.00	8.00	0.00	
10,900.00	63.54	89.37	10,746.95	4.37	397.01	397.03	8.00	8.00	0.00	
10,950.00	67.54	89.37	10,767.65	4.88	442.51	442.53	8.00	8.00	0.00	
11,000.00	71.54	89.37	10,785.13	5.39	489.34	489.37	8.00	8.00	0.00	
11,050.00	75.54	89.37	10,799.30	5.92	537.28	537.31	8.00	8.00	0.00	
11,100.00	79.54	89.37	10,810.09	6.46	586.08	586.12	8.00	8.00	0.00	
11,150.00	83.54	89.37	10,817.45	7.00	635.53	635.57	8.00	8.00	0.00	
11,200.00	87.54	89.37	10,821.34	7.55	685.36	685.40	8.00	8.00	0.00	
11,230.80	90.00	89.37	10,822.00	7.89	716.15	716.20	8.00	8.00	0.00	
11,300.00	90.00	89.37	10,822.00	8.65	785.35	785.39	0.00	0.00	0.00	
11,400.00	90.00	89.37	10,822.00	9.76	885.34	885.39	0.00	0.00	0.00	
11,500.00	90.00	89.37	10,822.00	10.86	985.33	985.39	0.00	0.00	0.00	
11,600.00	90.00	89.37	10,822.00	11.96	1,085.33	1,085.39	0.00	0.00	0.00	
11,700.00	90.00	89.37	10,822.00	13.06	1,185.32	1,185.39	0.00	0.00	0.00	
11,800.00	90.00	89.37	10,822.00	14.16	1,285.32	1,285.39	0.00	0.00	0.00	
11,900.00	90.00	89.37	10,822.00	15.26	1,385.31	1,385.39	0.00	0.00	0.00	
12,000.00	90.00	89.37	10,822.00	16.37	1,485.30	1,485.39	0.00	0.00	0.00	
12,100.00	90.00	89.37	10,822.00	17.47	1,585.30	1,585.39	0.00	0.00	0.00	
12,200.00	90.00	89.37	10,822.00	18.57	1,685.29	1,685.39	0.00	0.00	0.00	
12,300.00	90.00	89.37	10,822.00	19.67	1,785.29	1,785.39	0.00	0.00	0.00	
12,400.00	90.00	89.37	10,822.00	20.77	1,885.28	1,885.39	0.00	0.00	0.00	
12,500.00	90.00	89.37	10,822.00	21.88	1,985.27	1,985.39	0.00	0.00	0.00	
12,600.00	90.00	89.37	10,822.00	22.98	2,085.27	2,085.39	0.00	0.00	0.00	
12,700.00	90.00	89.37	10,822.00	24.08	2,185.26	2,185.39	0.00	0.00	0.00	
12,800.00	90.00	89.37	10,822.00	25.18	2,285.26	2,285.39	0.00	0.00	0.00	
12,900.00	90.00	89.37	10,822.00	26.28	2,385.25	2,385.39	0.00	0.00	0.00	
13,000.00	90.00	89.37	10,822.00	27.38	2,485.24	2,485.39	0.00	0.00	0.00	
13,100.00	90.00	89.37	10,822.00	28.49	2,585.24	2,585.39	0.00	0.00	0.00	
13,200.00	90.00	89.37	10,822.00	29.59	2,685.23	2,685.39	0.00	0.00	0.00	
13,300.00	90.00	89.37	10,822.00	30.69	2,785.23	2,785.39	0.00	0.00	0.00	
13,400.00	90.00	89.37	10,822.00	31.79	2,885.22	2,885.39	0.00	0.00	0.00	
13,500.00	90.00	89.37	10,822.00	32.89	2,985.21	2,985.39	0.00	0.00	0.00	
13,600.00	90.00	89.37	10,822.00	34.00	3,085.21	3,085.39	0.00	0.00	0.00	
13,700.00	90.00	89.37	10,822.00	35.10	3,185.20	3,185.39	0.00	0.00	0.00	
13,800.00	90.00	89.37	10,822.00	36.20	3,285.20	3,285.39	0.00	0.00	0.00	
13,900.00	90.00	89.37	10,822.00	37.30	3,385.19	3,385.39	0.00	0.00	0.00	
14,000.00	90.00	89.37	10,822.00	38.40	3,485.18	3,485.39	0.00	0.00	0.00	
14,100.00	90.00	89.37	10,822.00	39.51	3,585.18	3,585.39	0.00	0.00	0.00	
14,200.00	90.00	89.37	10,822.00	40.61	3,685.17	3,685.39	0.00	0.00	0.00	
14,300.00	90.00	89.37	10,822.00	41.71	3,785.16	3,785.39	0.00	0.00	0.00	
14,400.00	90.00	89.37	10,822.00	42.81	3,885.16	3,885.39	0.00	0.00	0.00	
14,500.00	90.00	89.37	10,822.00	43.91	3,985.15	3,985.39	0.00	0.00	0.00	
14,600.00	90.00	89.37	10,822.00	45.01	4,085.15	4,085.39	0.00	0.00	0.00	
14,700.00	90.00	89.37	10,822.00	46.12	4,185.14	4,185.39	0.00	0.00	0.00	
14,800.00	90.00	89.37	10,822.00	47.22	4,285.13	4,285.39	0.00	0.00	0.00	
14,900.00	90.00	89.37	10,822.00	48.32	4,385.13	4,385.39	0.00	0.00	0.00	



Scientific Drilling

Planning Report

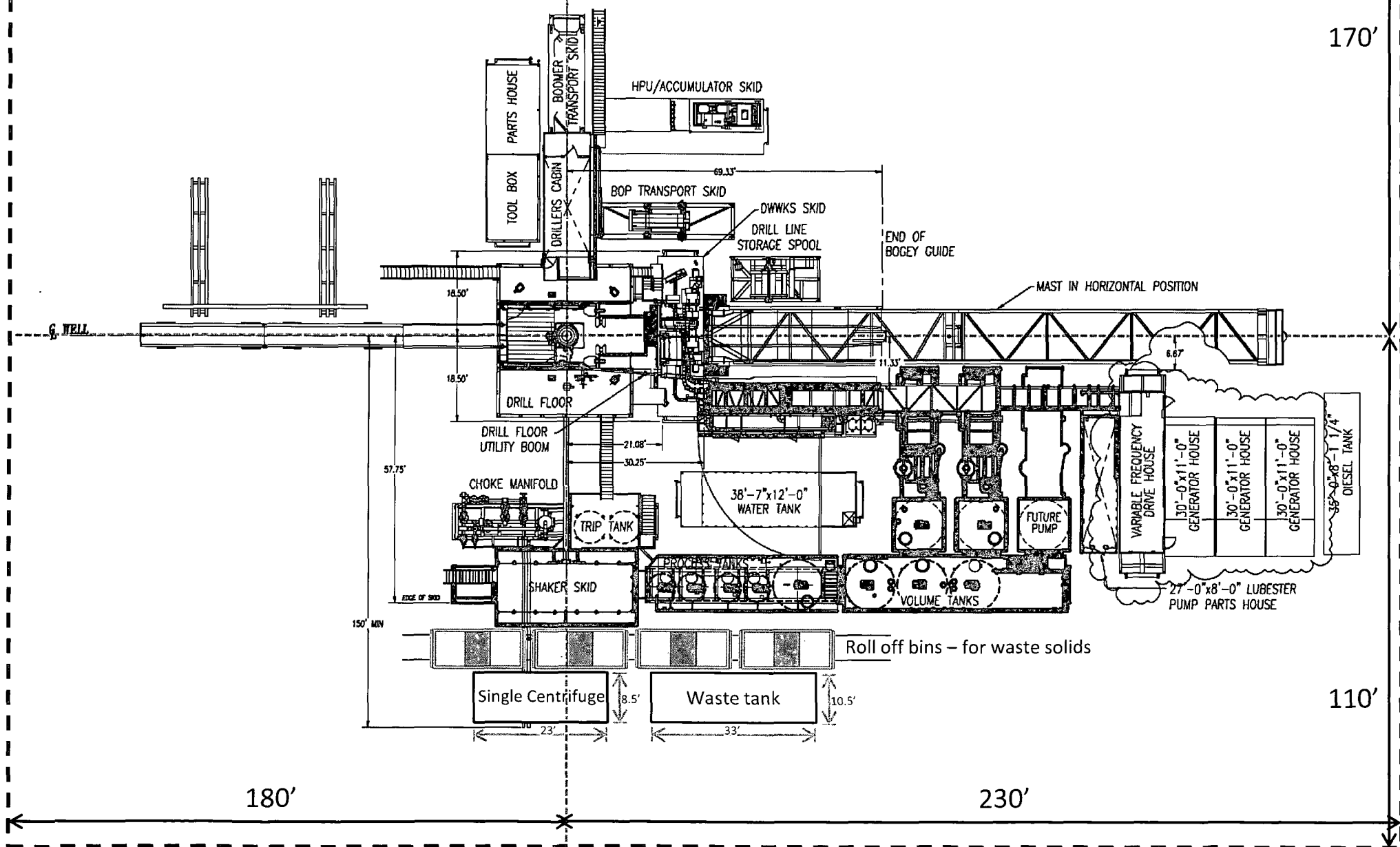


Database:	CompassC	Local Co-ordinate Reference:	Well Anderson 35 2H
Company:	OXY	TVD Reference:	KB @ 3712.00usft
Project:	Lea County, New Mexico	MD Reference:	KB @ 3712.00usft
Site:	Anderson 35 2H	North Reference:	Grid
Well:	Anderson 35 2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

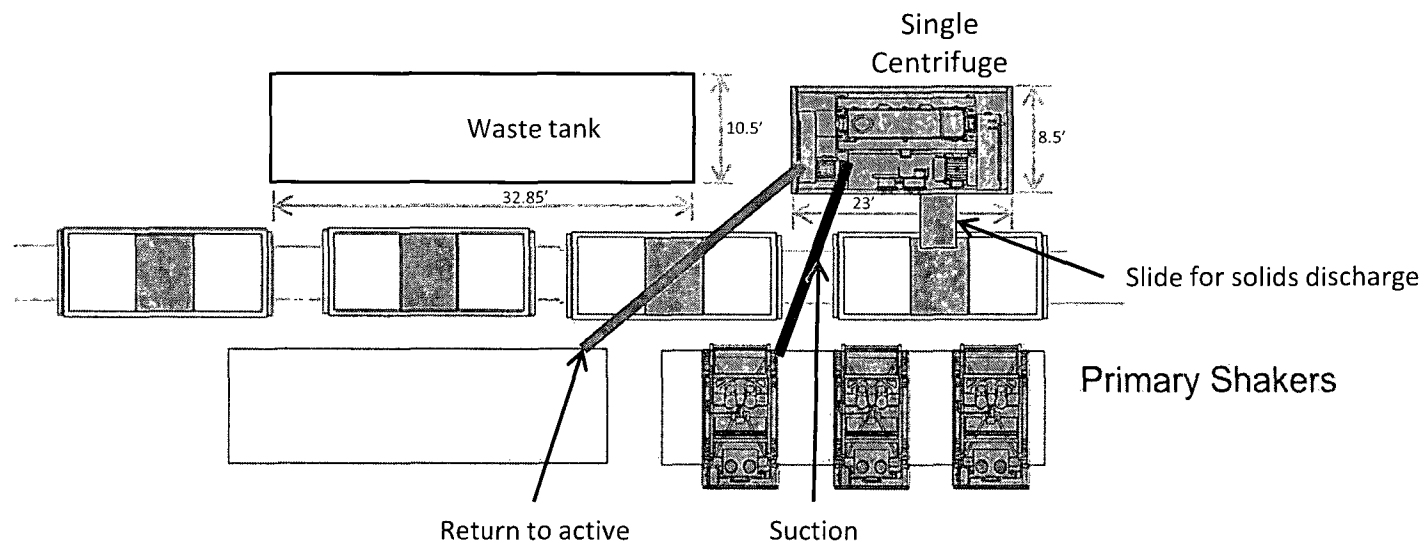
Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
15,000.00	90.00	89.37	10,822.00	49.42	4,485.12	4,485.39	0.00	0.00	0.00
15,100.00	90.00	89.37	10,822.00	50.52	4,585.12	4,585.39	0.00	0.00	0.00
15,200.00	90.00	89.37	10,822.00	51.63	4,685.11	4,685.39	0.00	0.00	0.00
15,300.00	90.00	89.37	10,822.00	52.73	4,785.10	4,785.39	0.00	0.00	0.00
15,315.70	90.00	89.37	10,822.00	52.90	4,800.80	4,801.09	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
- hit/miss target									
- Shape									
A35 2H PP	0.00	0.00	10,580.61	2.00	180.00	520,713.10	710,065.60	32.430	-103.652
- plan misses target center by 0.02usft at 10624.87usft MD (10580.61 TVD, 1.98 N, 180.00 E)									
- Point									
A35 2H BHL	0.00	0.00	10,822.00	52.90	4,800.80	520,764.00	714,686.40	32.430	-103.638
- plan hits target center									
- Point									

May 28, 2013



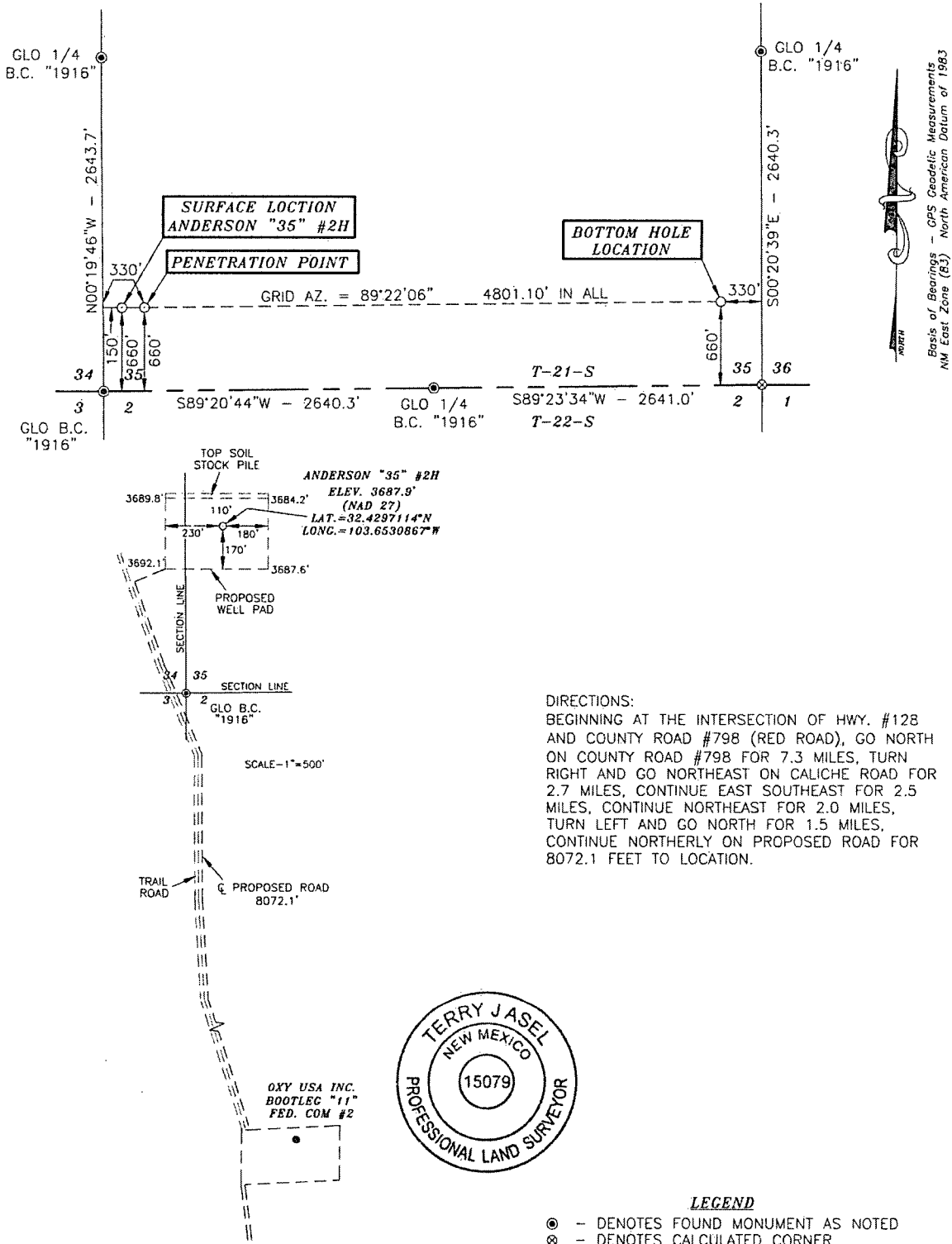
Oxy



Oxy Single Centrifuge
Closed Loop System – New
Mexico Flex III

May 28, 2013

SECTION 35, TOWNSHIP 21 SOUTH, RANGE 32 EAST, N.M.P.M.,
LEA COUNTY
NEW MEXICO



Terry J. Asel 6/7/2013
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

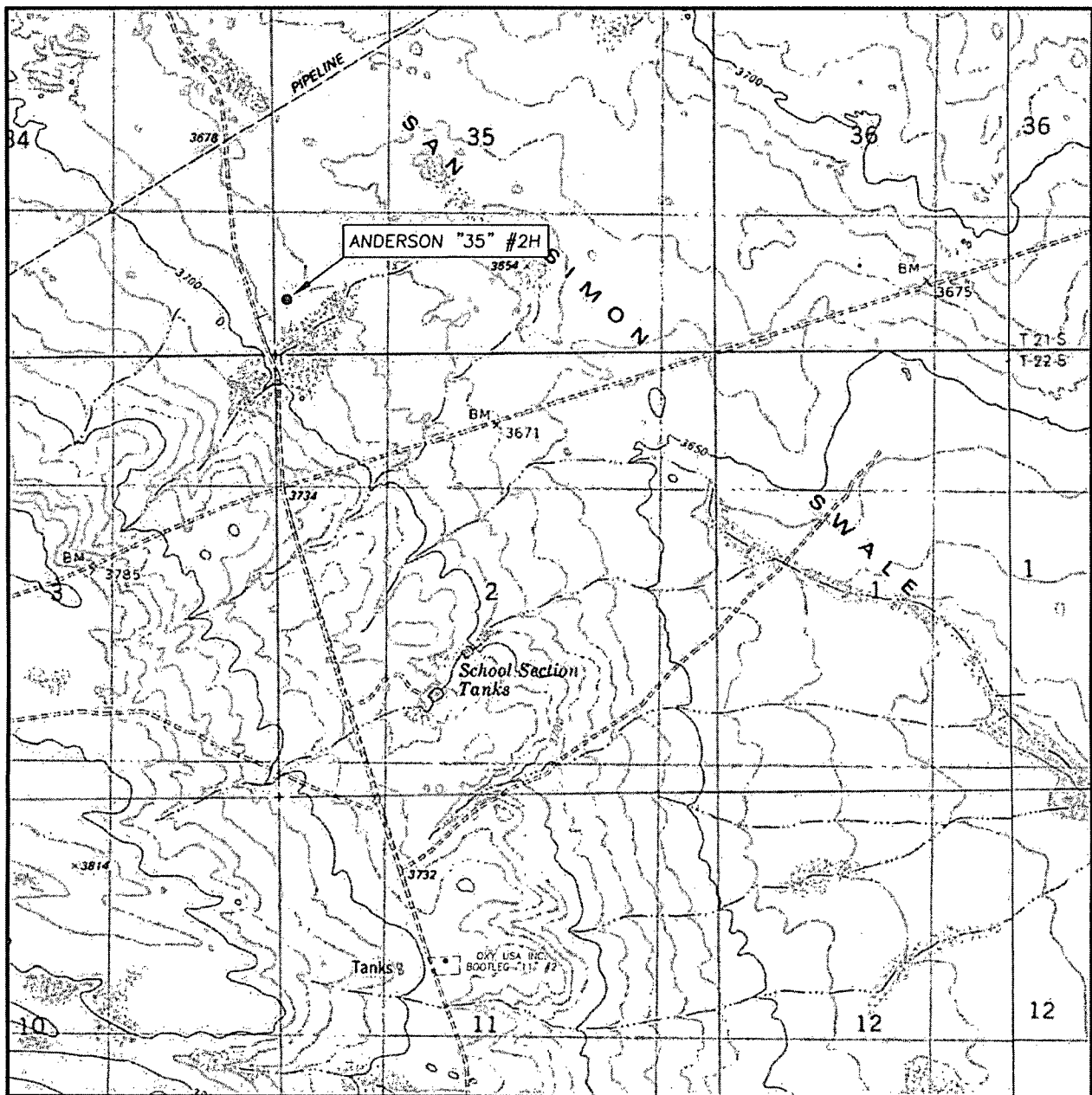


OXY USA INC.

ANDERSON "35" #2H LOCATED AT
660' FSL & 150' FWL IN SECTION 35,
TOWNSHIP 21 SOUTH, RANGE 32 EAST,
N.M.P.M., LEA COUNTY, NEW MEXICO

Survey Date: 03/21/13	Sheet 1 of 1 Sheets
W.O. Number: 130321WL-a	Drawn By: KA Rev:
Date: 06/07/13	130321WL-a Scale: 1"=1000'

LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL: 10'

SEC. 35 TWP. 21-S RGE. 32-E

SURVEY N.M.P.M.

COUNTY LEA

DESCRIPTION 660' FSL & 150' FWL

ELEVATION 3687.9'

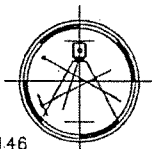
OPERATOR OXY USA INC.

LEASE ANDERSON "35" #2H

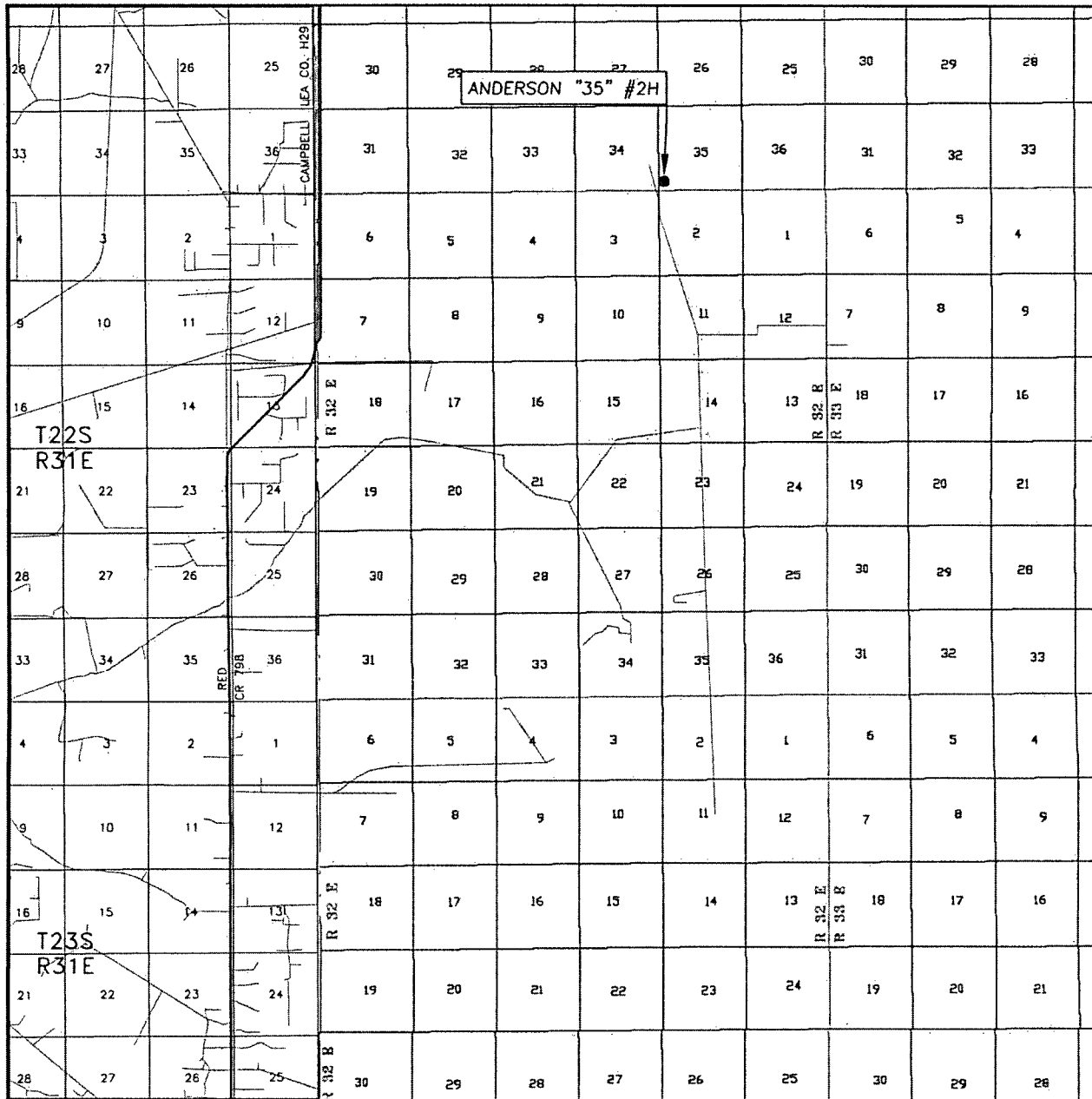
U.S.G.S. TOPOGRAPHIC MAP
THE DIVIDE, N.M.

Asel Surveying

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



VICINITY MAP

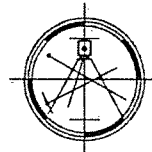


SEC. 35 TWP. 21-S RGE. 32-E
 SURVEY N.M.P.M.
 COUNTY LEA
 DESCRIPTION 660' FSL & 150' FWL
 ELEVATION 3687.9'
 OPERATOR OXY USA INC.
 LEASE ANDERSON "35" #2H

SCALE: 1" = 2 MILES

Asel Surveying

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



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 1.5 MILES, CONTINUE NORTHERLY ON PROPOSED ROAD FOR 8072.1 FEET TO LOCATION.