

Scientific Drilling Inc.

Planning Report

Company: OXY USA Inc. Field: Hobbs San Andres Site: Lea County, New Mexico Well: NHU #29-814 Wellpath: OH Original hole	Date: 12/20/2000 Time: 11:36:42 Page: 1 Co-ordinate(NE) Reference: Site: Lea County, New Mexico, True North Vertical (TVD) Reference: Mean Sea Level 0.0 above Mean Sea Level Section (VS) Reference: Site (0.0E,0.0N,154.2Azi) Plan: Plan #1
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Field: Hobbs San Andres

Map System: US State Plane Coordinate System 1927
Ellipsoid: Clarke - 1866
Sys Datum: Mean Sea Level

Map Zone: Texas, Central Zone
North Reference: True
Geomagnetic Model: igrf2000

Site: Lea County, New Mexico

Site Position:	Northing:	ft	Latitude:	
From: Local Only	Easting:	ft	Longitude:	
Position Uncertainty: 0.0 ft			Magnetic Declination:	0.00 deg
Water Depth: 0.0 ft			Grid Convergence:	deg

Well: NHU #29-814

Well Position: +N/-S 0.0 ft	Northing:	ft	Latitude:	
From Slot: +E/-W 0.0 ft	Easting:	ft	Longitude:	
Position Uncertainty: 0.0 ft				

Wellpath: OH Original hole	Drilled From: Surface
	Tie-on Depth: ft
Vertical Section: +N/-S 0.0 ft	V.Section Direction: 154.20 deg
From: Site +E/-W 0.0 ft	
Measured Depth Reference: Mean Sea Level 0.0 ft	Above System Datum: Mean Sea Level

Plan: Plan #1	Date Composed: 12/20/2000
	Version: 1

Principal: Yes	Locked: No
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Plan Section Information

MD ft	Incl deg	Azlm deg	TVD ft	+N/-S ft	+E/-W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
2000.0	0.00	0.00	2000.0	0.0	0.0	0.00	0.00	0.00	0.00	
2207.7	4.67	154.21	2207.5	-7.6	3.7	2.25	2.25	74.23	154.21	
4134.6	4.67	154.21	4128.0	-149.0	72.0	0.00	0.00	0.00	0.00	29-814-midpay
4311.2	4.67	154.21	4304.0	-162.0	78.3	0.00	0.00	0.00	0.00	

Section 1 : Start Hold

MD ft	Incl deg	Azlm deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	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	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	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	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	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	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	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	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	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	0.00
1000.0	0.00	0.00	1000.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
1100.0	0.00	0.00	1100.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
1200.0	0.00	0.00	1200.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
1300.0	0.00	0.00	1300.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
1400.0	0.00	0.00	1400.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
1500.0	0.00	0.00	1500.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
1600.0	0.00	0.00	1600.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
1700.0	0.00	0.00	1700.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
1800.0	0.00	0.00	1800.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
1900.0	0.00	0.00	1900.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
2000.0	0.00	0.00	2000.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00

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Field: Hobbs San Andres
Site: Lea County, New Mexico
Well: NHU #29-814
Wellpath: OH Original hole

Date: 12/20/2000 **Time:** 11:36:42 **Page:** 2
Co-ordinate(N/E) Reference: Site: Lea County, New Mexico, True North
Vertical (TVD) Reference: Mean Sea Level 0.0 above Mean Sea Level
Section (VS) Reference: Site (0.0E,0.0N,154.2Azi)
Plan: Plan #1

Section 2 : Start DLS 2.25 TFO 154.21

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
2100.0	2.25	154.21	2100.0	-1.8	0.9	2.0	2.25	2.25	0.00	0.00
2207.7	4.67	154.21	2207.5	-7.6	3.7	8.5	2.25	2.25	0.00	0.00

Section 3 : Start Hold

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
2300.0	4.67	154.21	2299.5	-14.4	7.0	16.0	0.00	0.00	0.00	0.00
2400.0	4.67	154.21	2399.1	-21.7	10.5	24.1	0.00	0.00	0.00	0.00
2500.0	4.67	154.21	2498.8	-29.1	14.0	32.3	0.00	0.00	0.00	0.00
2600.0	4.67	154.21	2598.5	-36.4	17.6	40.4	0.00	0.00	0.00	0.00
2700.0	4.67	154.21	2698.1	-43.7	21.1	48.6	0.00	0.00	0.00	0.00
2800.0	4.67	154.21	2797.8	-51.1	24.7	56.7	0.00	0.00	0.00	0.00
2900.0	4.67	154.21	2897.5	-58.4	28.2	64.9	0.00	0.00	0.00	0.00
3000.0	4.67	154.21	2997.1	-65.8	31.8	73.0	0.00	0.00	0.00	0.00
3100.0	4.67	154.21	3096.8	-73.1	35.3	81.2	0.00	0.00	0.00	0.00
3200.0	4.67	154.21	3196.5	-80.4	38.9	89.3	0.00	0.00	0.00	0.00
3300.0	4.67	154.21	3296.1	-87.8	42.4	97.5	0.00	0.00	0.00	0.00
3400.0	4.67	154.21	3395.8	-95.1	46.0	105.6	0.00	0.00	0.00	0.00
3500.0	4.67	154.21	3495.5	-102.4	49.5	113.8	0.00	0.00	0.00	0.00
3600.0	4.67	154.21	3595.1	-109.8	53.0	121.9	0.00	0.00	0.00	0.00
3700.0	4.67	154.21	3694.8	-117.1	56.6	130.1	0.00	0.00	0.00	0.00
3800.0	4.67	154.21	3794.5	-124.4	60.1	138.2	0.00	0.00	0.00	0.00
3900.0	4.67	154.21	3894.1	-131.8	63.7	146.4	0.00	0.00	0.00	0.00
4000.0	4.67	154.21	3993.8	-139.1	67.2	154.5	0.00	0.00	0.00	0.00
4100.0	4.67	154.21	4093.5	-146.5	70.8	162.7	0.00	0.00	0.00	0.00
4134.6	4.67	154.21	4128.0	-149.0	72.0	165.5	0.00	0.00	0.00	0.00

Section 4 : Start Hold

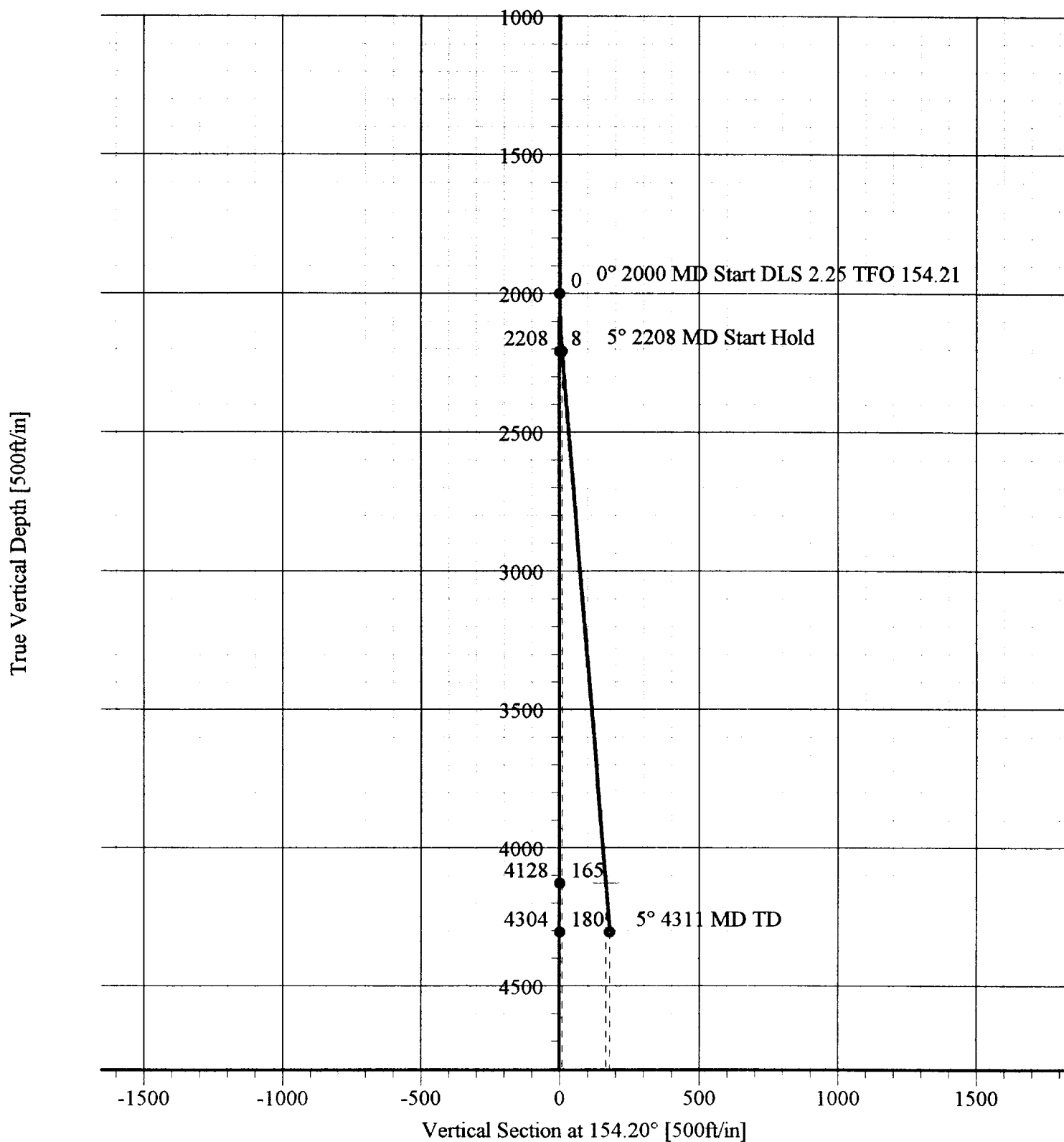
MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
4200.0	4.67	154.21	4193.1	-153.8	74.3	170.8	0.00	0.00	0.00	0.00
4300.0	4.67	154.21	4292.8	-161.1	77.9	179.0	0.00	0.00	0.00	0.00
4311.2	4.67	154.21	4304.0	-162.0	78.3	179.9	0.00	0.00	0.00	0.00



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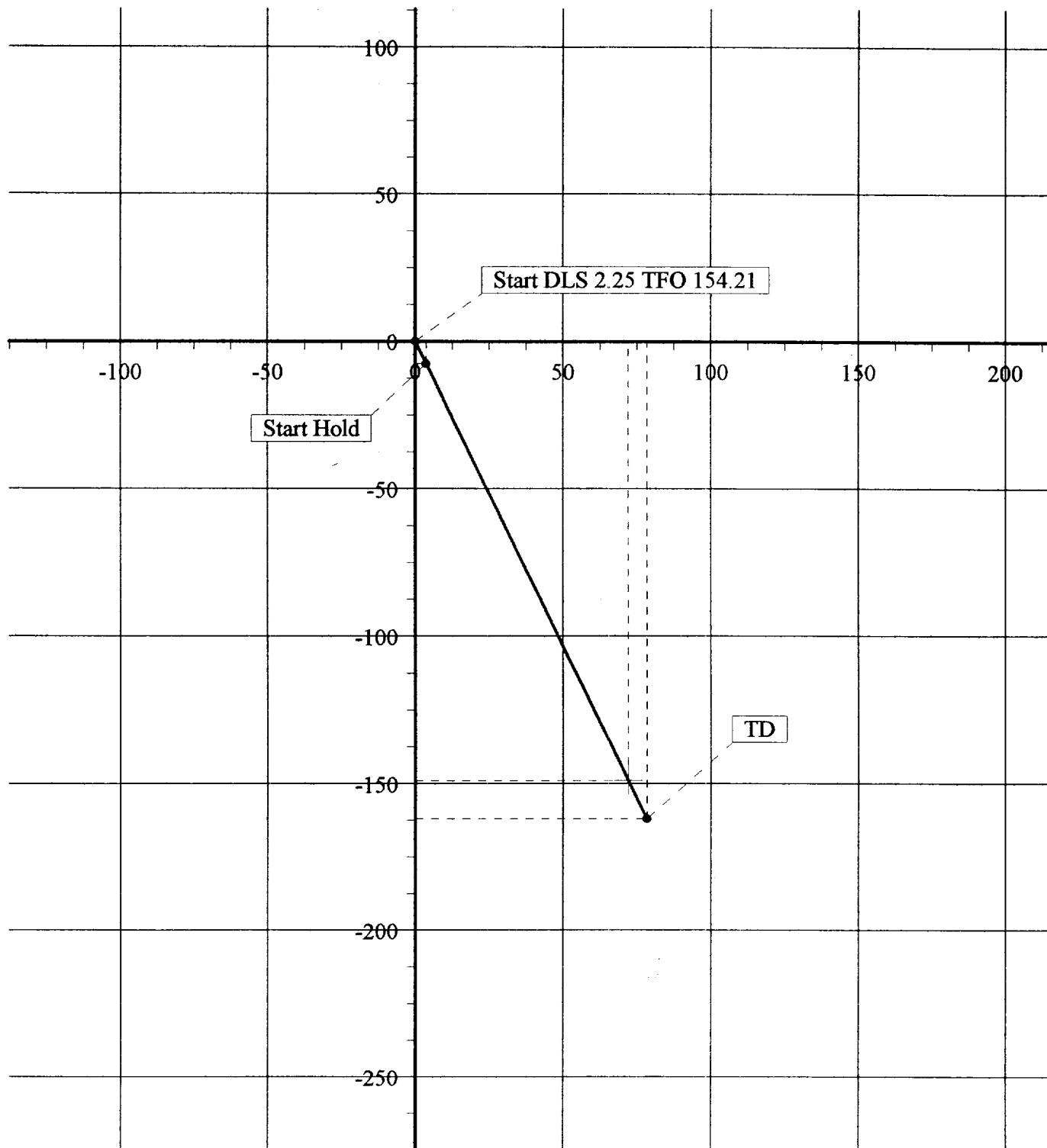
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South(-)/North(+) [20ft/in]



West(-)/East(+) [20ft/in]

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