

Scientific Drilling Inc.

Planning Report

Company: OXY USA Inc.
Field: Hobbs San Andres
Site: Lea County, New Mexico
Well: NHU #32-913
Wellpath: OH Original hole

Date: 12/27/2000 **Time:** 16:52:18 **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,270.0Azi)
Plan: Plan #1

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 #32-913

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
Vertical Section: +N/-S 0.0 ft **Tie-on Depth:** ft
From: Site +E/-W 0.0 ft **V.Section Direction:** 270.00 deg
Measured Depth Reference: Mean Sea Level 0.0 ft **Above System Datum:** Mean Sea Level

Plan: Plan #1 **Date Composed:** 12/27/2000
Version: 1
Principal: Yes **Locked:** No

Plan Section Information

MD ft	Incl deg	Azim 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	
1650.0	0.00	0.00	1650.0	0.0	0.0	0.00	0.00	0.00	0.00	
2052.8	9.06	270.00	2051.1	0.0	-31.8	2.25	2.25	-22.35	270.00	
4168.4	9.06	270.00	4140.3	0.0	-365.0	0.00	0.00	0.00	0.00	Midpoint 32-913
4323.3	9.06	270.00	4293.3	0.0	-389.4	0.00	0.00	0.00	0.00	

Section 1 : 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
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
1650.0	0.00	0.00	1650.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00

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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,270.0Azi)
Plan: Plan #1

Section 2 : Start DLS 2.25 TFO 270.00

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
1700.0	1.13	270.00	1700.0	0.0	-0.5	0.5	2.25	2.25	0.00	0.00
1800.0	3.38	270.00	1799.9	0.0	-4.4	4.4	2.25	2.25	0.00	0.00
1900.0	5.63	270.00	1899.6	0.0	-12.3	12.3	2.25	2.25	0.00	0.00
2000.0	7.88	270.00	1998.9	0.0	-24.0	24.0	2.25	2.25	0.00	0.00
2052.8	9.06	270.00	2051.1	0.0	-31.8	31.8	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
2100.0	9.06	270.00	2097.7	0.0	-39.2	39.2	0.00	0.00	0.00	0.00
2200.0	9.06	270.00	2196.5	0.0	-55.0	55.0	0.00	0.00	0.00	0.00
2300.0	9.06	270.00	2295.2	0.0	-70.7	70.7	0.00	0.00	0.00	0.00
2400.0	9.06	270.00	2394.0	0.0	-86.5	86.5	0.00	0.00	0.00	0.00
2500.0	9.06	270.00	2492.7	0.0	-102.2	102.2	0.00	0.00	0.00	0.00
2600.0	9.06	270.00	2591.5	0.0	-118.0	118.0	0.00	0.00	0.00	0.00
2700.0	9.06	270.00	2690.2	0.0	-133.7	133.7	0.00	0.00	0.00	0.00
2800.0	9.06	270.00	2789.0	0.0	-149.5	149.5	0.00	0.00	0.00	0.00
2900.0	9.06	270.00	2887.7	0.0	-165.2	165.2	0.00	0.00	0.00	0.00
3000.0	9.06	270.00	2986.5	0.0	-181.0	181.0	0.00	0.00	0.00	0.00
3100.0	9.06	270.00	3085.3	0.0	-196.7	196.7	0.00	0.00	0.00	0.00
3200.0	9.06	270.00	3184.0	0.0	-212.5	212.5	0.00	0.00	0.00	0.00
3300.0	9.06	270.00	3282.8	0.0	-228.2	228.2	0.00	0.00	0.00	0.00
3400.0	9.06	270.00	3381.5	0.0	-244.0	244.0	0.00	0.00	0.00	0.00
3500.0	9.06	270.00	3480.3	0.0	-259.7	259.7	0.00	0.00	0.00	0.00
3600.0	9.06	270.00	3579.0	0.0	-275.5	275.5	0.00	0.00	0.00	0.00
3700.0	9.06	270.00	3677.8	0.0	-291.2	291.2	0.00	0.00	0.00	0.00
3800.0	9.06	270.00	3776.5	0.0	-307.0	307.0	0.00	0.00	0.00	0.00
3900.0	9.06	270.00	3875.3	0.0	-322.7	322.7	0.00	0.00	0.00	0.00
4000.0	9.06	270.00	3974.0	0.0	-338.5	338.5	0.00	0.00	0.00	0.00
4100.0	9.06	270.00	4072.8	0.0	-354.2	354.2	0.00	0.00	0.00	0.00
4168.4	9.06	270.00	4140.3	0.0	-365.0	365.0	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	9.06	270.00	4171.5	0.0	-370.0	370.0	0.00	0.00	0.00	0.00
4300.0	9.06	270.00	4270.3	0.0	-385.7	385.7	0.00	0.00	0.00	0.00
4323.3	9.06	270.00	4293.3	0.0	-389.4	389.4	0.00	0.00	0.00	0.00

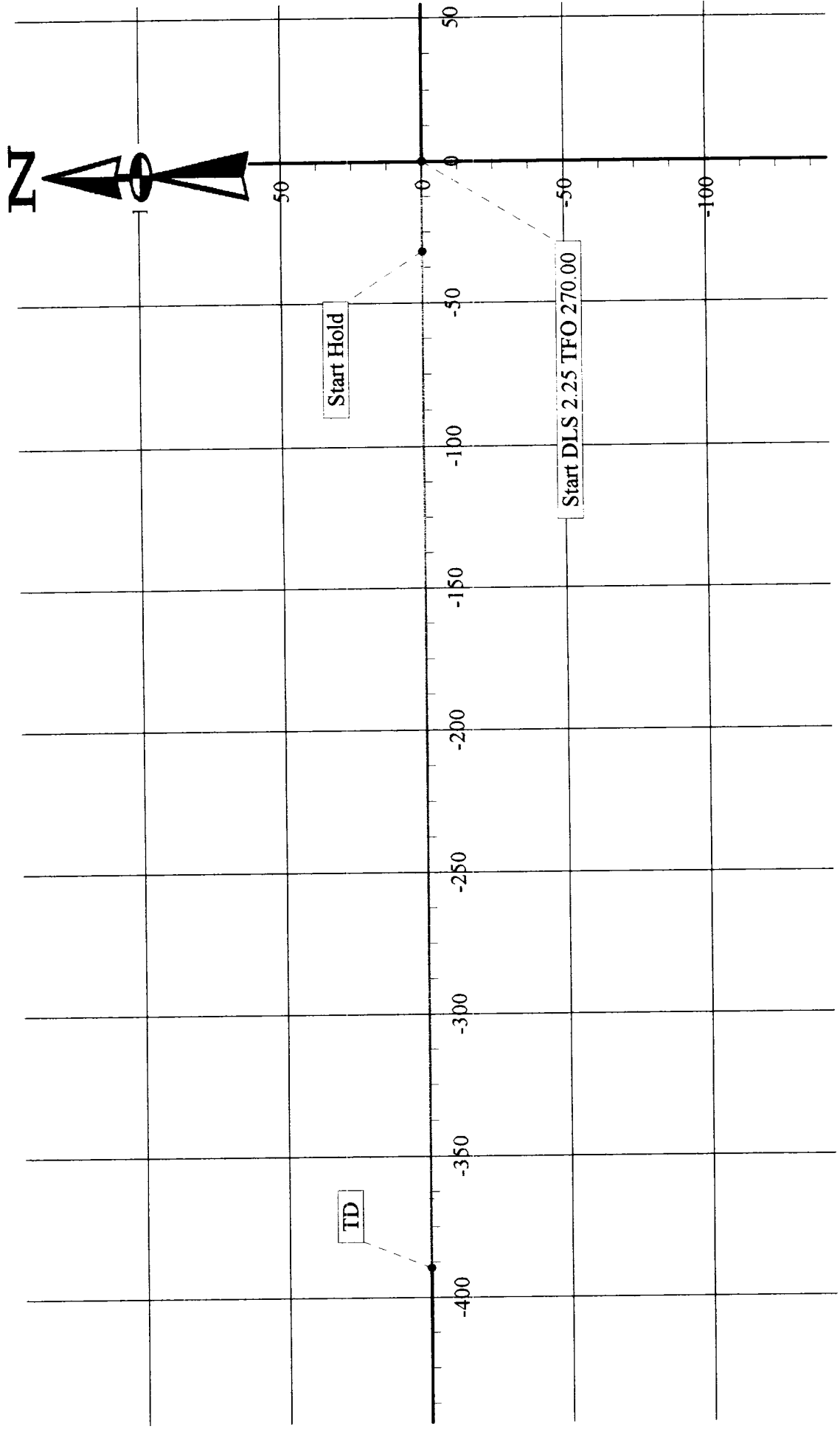
CONFIDENTIAL LOGS
INDICATE WHEN
DATE DOES NOT
11/27/69



Scientific
Drilling

OXY USA Inc.

Field: Hobbs San Andres
Site: Lea County, New Mexico
Well: NHU #32-913
Wellpath: OH Original hole
Plan: Plan #1



West(-)/East(+) [50ft/in]

South(-)/North(+) [50ft/in]

CONFIDENTIAL LOG
INDICATE WHEN
DATE DOES NOT
11/27/61

CONFIDENTIAL LOG
SHOULD BE RELEASED