



Scientific Drilling Intl.

Planning Report

Company: OXY Permian Field: Hobbs San Andres-NAD27 Site: Lea County, New Mexico Well: SHU #247 Wellpath: 1	Date: 2/22/2002 Co-ordinate(NE) Reference: Well: SHU #247, Grid North Vertical (TVD) Reference: SITE 0.0 Section (VS) Reference: Well (0.00N,0.00E,80.65Azi) Plan: Plan #1	Time: 10:10:07 Page: 1
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Field: Hobbs San Andres-NAD27

Map System: US State Plane Coordinate System 1927 Geo Datum: NAD27 (Clarke 1866) Sys Datum: Mean Sea Level	Map Zone: New Mexico, Eastern Zone Coordinate System: Well Centre Geomagnetic Model: igrf2000
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Site: Lea County, New Mexico

Site Position: From: Map Position Uncertainty: 0.0 ft Ground Level: 0.0 ft	Northing: 188235.34 m Easting: 261491.27 m	Latitude: 32 41 32.651 N Longitude: 103 10 11.886 W North Reference: Grid Grid Convergence: 0.63 deg
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Well: SHU #247 Well Position: +N/-S 0.0 ft +E/-W 0.0 ft Position Uncertainty: 0.0 ft	Slot Name: Northing: 188235.34 m Easting : 261491.27 m Latitude: 32 41 32.651 N Longitude: 103 10 11.886 W
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Wellpath: 1 Current Datum: SITE Magnetic Data: 12/14/2001 Field Strength: 50023 nT Vertical Section: Depth From (TVD) ft	Height 0.0 ft	Drilled From: Surface Tie-on Depth: 0.0 ft Above System Datum: Mean Sea Level Declination: 8.60 deg Mag Dip Angle: 60.97 deg +N/-S ft +E/-W ft Direction deg
4033.0	0.0	0.0 80.65

Plan: Plan #1 Principal: Yes	Date Composed: 12/14/2001 Version: 1 Tied-to: From Surface
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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	
1800.0	0.00	0.00	1800.0	0.0	0.0	0.00	0.00	0.00	0.00	
2629.9	18.67	80.65	2615.3	21.8	132.3	2.25	2.25	9.72	80.65	
4126.4	18.67	80.65	4033.0	99.6	605.0	0.00	0.00	0.00	0.00	Mid Pay 247
4406.1	18.67	80.65	4298.0	114.1	693.4	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
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

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Planning Report

Company: OXY Permian	Date: 2/22/2002	Time: 10:10:07	Page: 2
Field: Hobbs San Andres-NAD27	Co-ordinate(NE) Reference: Well: SHU #247, Grid North		
Site: Lea County, New Mexico	Vertical (TVD) Reference: SITE 0.0		
Well: SHU #247	Section (VS) Reference: Well (0.00N,0.00E,80.65Azi)		
Wellpath: 1	Plan: Plan #1		

Section 1 : Start Hold

MD	Incl	Azim	TVD	+N/-S	+E/-W	VS	DLS	Build	Turn	TFO

Section 2 : Start DLS 2.25 TFO 80.65

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
1900.0	2.25	80.65	1900.0	0.3	1.9	2.0	2.25	2.25	0.00	0.00
2000.0	4.50	80.65	1999.8	1.3	7.7	7.8	2.25	2.25	0.00	0.00
2100.0	6.75	80.65	2099.3	2.9	17.4	17.7	2.25	2.25	0.00	0.00
2200.0	9.00	80.65	2198.4	5.1	30.9	31.4	2.25	2.25	0.00	0.00
2300.0	11.25	80.65	2296.8	7.9	48.3	48.9	2.25	2.25	0.00	0.00
2400.0	13.50	80.65	2394.5	11.4	69.4	70.4	2.25	2.25	0.00	0.00
2500.0	15.75	80.65	2491.2	15.5	94.3	95.6	2.25	2.25	0.00	0.00
2600.0	18.00	80.65	2586.9	20.2	123.0	124.6	2.25	2.25	0.00	0.00
2629.9	18.67	80.65	2615.3	21.8	132.3	134.0	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
2700.0	18.67	80.65	2681.7	25.4	154.4	156.5	0.00	0.00	0.00	180.00
2800.0	18.67	80.65	2776.4	30.6	186.0	188.5	0.00	0.00	0.00	180.00
2900.0	18.67	80.65	2871.2	35.8	217.6	220.5	0.00	0.00	0.00	180.00
3000.0	18.67	80.65	2965.9	41.0	249.2	252.5	0.00	0.00	0.00	180.00
3100.0	18.67	80.65	3060.6	46.2	280.8	284.5	0.00	0.00	0.00	180.00
3200.0	18.67	80.65	3155.4	51.4	312.4	316.6	0.00	0.00	0.00	180.00
3300.0	18.67	80.65	3250.1	56.6	343.9	348.6	0.00	0.00	0.00	180.00
3400.0	18.67	80.65	3344.9	61.8	375.5	380.6	0.00	0.00	0.00	180.00
3500.0	18.67	80.65	3439.6	67.0	407.1	412.6	0.00	0.00	0.00	180.00
3600.0	18.67	80.65	3534.3	72.2	438.7	444.6	0.00	0.00	0.00	180.00
3700.0	18.67	80.65	3629.1	77.4	470.3	476.6	0.00	0.00	0.00	180.00
3800.0	18.67	80.65	3723.8	82.6	501.9	508.7	0.00	0.00	0.00	180.00
3900.0	18.67	80.65	3818.5	87.8	533.5	540.7	0.00	0.00	0.00	180.00
4000.0	18.67	80.65	3913.3	93.0	565.1	572.7	0.00	0.00	0.00	180.00
4100.0	18.67	80.65	4008.0	98.2	596.7	604.7	0.00	0.00	0.00	180.00
4126.4	18.67	80.65	4033.0	99.6	605.0	613.1	0.00	0.00	0.00	180.00

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	18.67	80.65	4102.7	103.4	628.3	636.7	0.00	0.00	0.00	180.00
4300.0	18.67	80.65	4197.5	108.6	659.8	668.7	0.00	0.00	0.00	180.00
4406.1	18.67	80.65	4298.0	114.1	693.4	702.7	0.00	0.00	0.00	180.00