

NORTH VACUUM ABO #213

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, NM 87504-2088

Instructions on back
Submit to Appropriate District Office
State Lease - 6 Copies
Fee Lease - 5 Copies

District I
PO Box 1960, Hobbs, NM 88241-1960
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
Rio Brazos Rd., Aztec, NM 87410
District IV
PO Box 2088, Santa Fe, NM 87504-2088

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

¹ Operator name and Address MOBIL PRODUCING TX & NM INC.* *MOBIL EXPLORATION & PRODUCING US INC. AS AGENT FOR MPTM P.O. BOX 633, MIDLAND, TX 79702		² OGRID Number 15144
⁴ Property Code 8055	⁵ Property Name NORTH VACUUM ABO Unit	³ API Number 30-0 25-23982
		⁶ Well Number 213

⁷ Surface Location									
UL or lot no. N	Section 26	Township 17-S	Range 34-E	Lot. Idn	Feet from the 460	North/South Line SOUTH	Feet from the 1980'	East/West line WEST	County LEA

⁸ Proposed Bottom Hole Location If Different From Surface									
UL or lot no. CB	Section 26	Township 17-S	Range 34-E	Lot. Idn	Feet from the 414'	North/South Line NORTH	Feet from the 2547'	East/West line EAST	County LEA
⁹ Proposed Pool 1 N Vacuum Abo					¹⁰ Proposed Pool 2				

¹¹ Work Type Code P	¹² Well Type Code O	¹³ Cable/Rotary ROTARY	¹⁴ Lease Type Code S	¹⁵ Ground Level Elevation 4028'
¹⁶ Multiple NO	¹⁷ Proposed Depth 8510'	¹⁸ Formations Abo	¹⁹ Contractor	²⁰ Spud Date 06-30-97

²¹ Proposed Casing and Cement Program					
Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
15"	12 3/4	34#	250'	CIRCULATED	SURFACE
11"	8 5/8"	28#	3035'	CIRCULATED	SURFACE
7 7/8"	5 1/2"	17#	8700'	CIRCULATED	SURFACE

²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary

SEE ATTACHMENT

Permit Expires 1 Year From Approval
Date Unless Drilling Underway
Plugback

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief.		OIL CONSERVATION DIVISION	
Signature: Shirley Houchins		Approved by: ORIGINAL SIGNED BY CHRIS WILLIAMS DISTRICT I SUPERVISOR	
Printed name: SHIRLEY HOUCHINS		Title:	
Title: ENVIRONMENTAL & REGULATORY TECHNICIAN		Approval Date: 8-18-1997	Expiration Date:
Date: 8-18-1997	Phone: (915) 688-2585	Conditions of Approval: Attached ☐	

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
Rio Brazos Rd., Aztec, NM 87410
District IV
PO Box 2088, Santa Fe, NM 87504-2088

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

Revised February 10, 1977

Instructions on
Submit to Appropriate District
State Lease - 4
Fee Lease - 3

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-23982		Pool Code 61760	Pool Name NORTH VACUUM Abo
Property Code 8055	Property Name NORTH VACUUM Abo Unit		Well Number 213
OGRID No. 15144	Operator Name MOBIL PRODUCING TX & NM INC.* *MOBIL EXPLORATION & PRODUCING US INC. AS AGENT FOR MPTM		Elevation 4028'

¹⁰ Surface Location

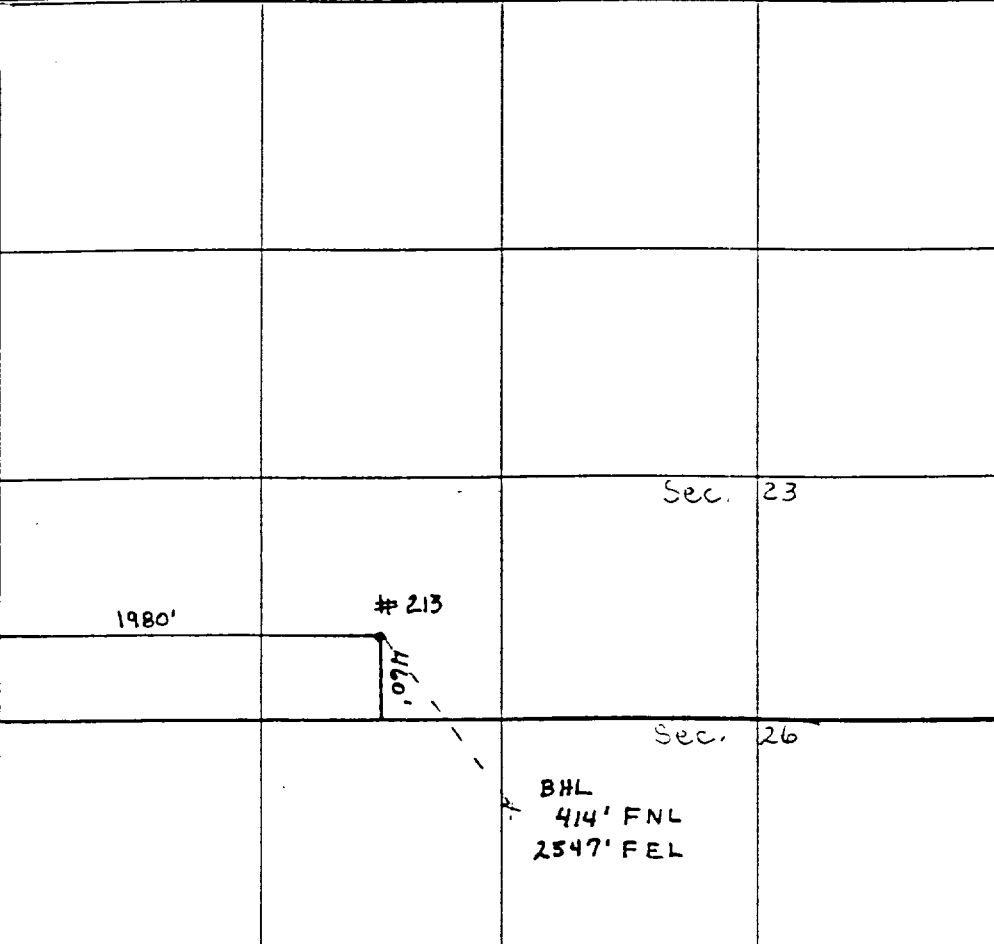
UI or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
N	23	17-S	34-E		460	SOUTH	1980'	WEST	LEA

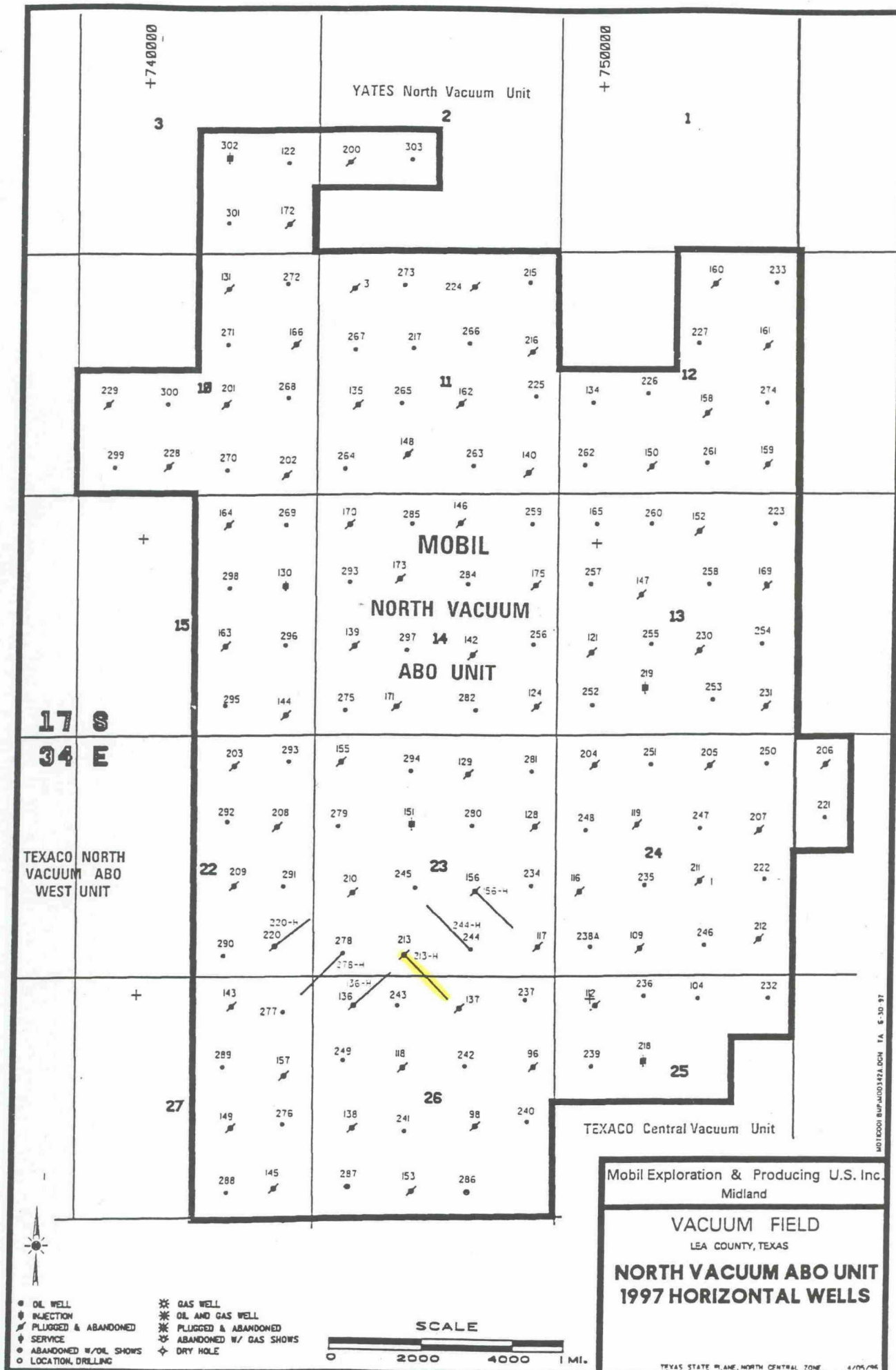
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
C B	26	17-S	34-E		414'	NORTH	2547'	EAST	LEA

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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

	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. <u>Shirley Houchins</u> Signature SHIRLEY HOUCHINS Printed Name ENV. & REG. TECHNICIAN Title 8-18-1997 Date
	¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. _____ Date of Survey _____ Signature and Seal of Professional Surveyor _____ Certificate Number



NVAU NO. 213W
Lea County, New Mexico

I. GENERAL DRILLING SUMMARY

A. Objective

The objective of this project is to set a whipstock and cut a window in the 5-1/2" casing from 8419'-8428' and drill an open hole lateral in the Abo formation with a vertical section of 1320 ft.

B. Procedure

1. Prepare location and dig workover pit.
2. Bleed well down. MIRU pulling unit and required H2S equipment.
3. ND wellhead. NU BOP (double ram with annular and stripper head). POH w/ injection equipment. Remove permanent pkr @ 8329. Set CIBP and whipstock @ 8434' and mill window from 8419'-8428'.
4. Drill curve and lateral to a vertical section of 1320 ft. along an azimuth of 132.5 degrees. Drilling operations completed.

Note: Whipstock and CIBP MAY be removed following stimulation.

INVESTIGATION
Vacuum bld
Lea County, New Mexico

MEE: 08/06/97

Spud: 12/19/71

Current Configuration

400 FSL
1980' FWL
S-23
F17S
R34E
KB: 4044'
GL: 4028'

12-3/4" 34# 8rd STC @ 278'
w/ 450 sx A w/ 2% CC
Cement Circulated

3-5/8" 28# 8rd STC @ 3035'
w/ 1200 sx TLW w/ 7-1/2# salt &
200 sx "C" w/ 2.6# salt CC
Cement Circulated

5-1/2" 17# J55 LTC @ 8800'
w/ 2100 sx "TLW" w/ 1/4# FC &
200 sx C neat
Circulated 600 sx

266 jts 2-3/8" N80 Hydril (Butt?) tbg w/ ASA
Baker NB pkr @ 8329
6' MOE
6' 2-3/8" sub
1.81" F nipple @ 8341
2-3/8" flow tube w/ EOT @ 8348

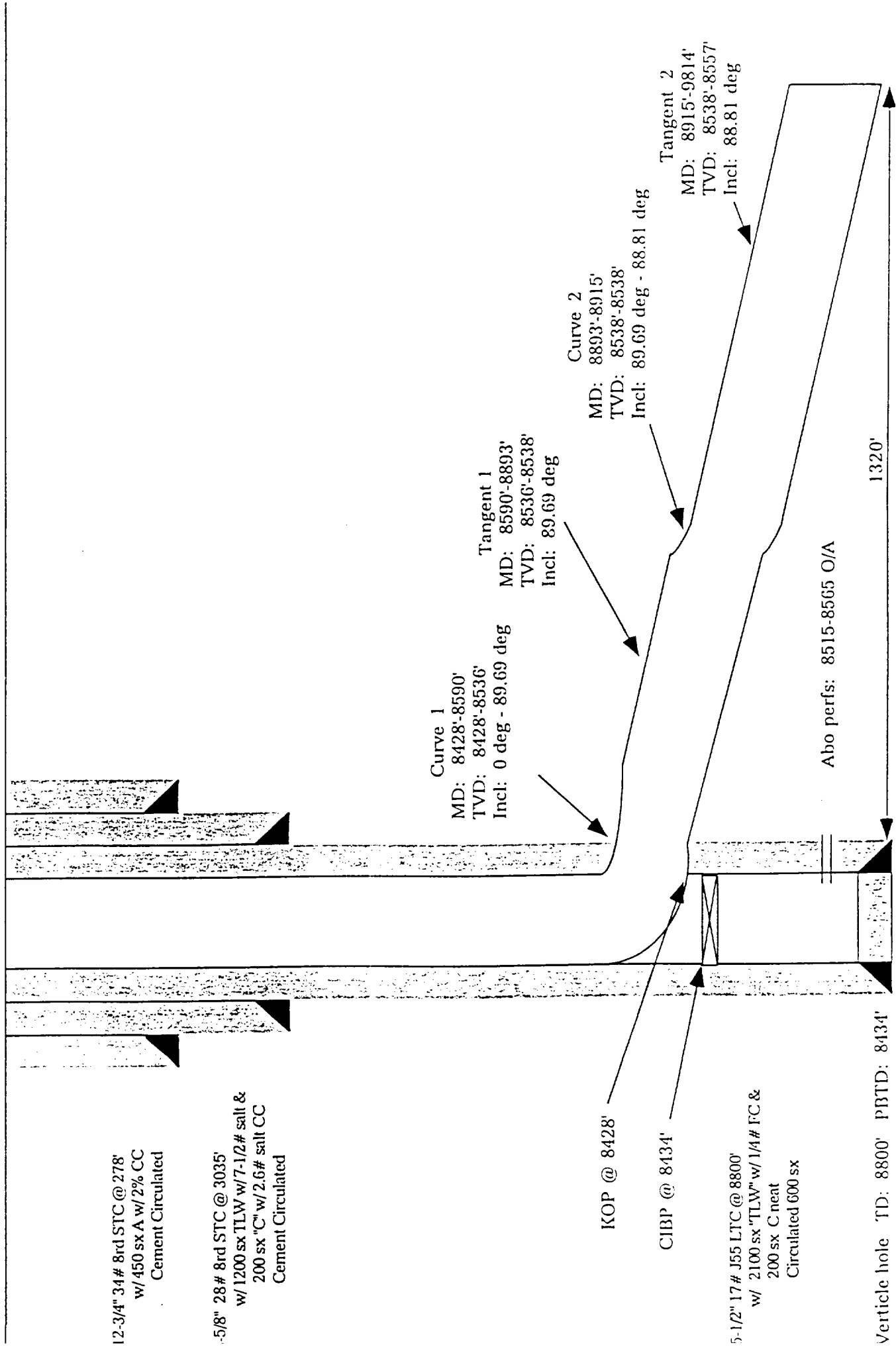
Abo perfs: 8515-8565 O/A

TD: 8800' PBTD: 8752'

NVAU 213W
 Vacuor dld
 Lea County, New Mexico
 Proposed Configuration

MEE: 08/12/97
 Spud: 12/19/71

160' FSL
 980' FWL
 3-23
 17S
 234E
 KB: 4044'
 GL: 4028'



**WELL PLANNING
REPORT**

MOBIL E&P SERVICES, INC.

NVAU #213

**N/A
12-Aug-97**

**SPERRY-SUN DRILLING SERVICES
WELL PROFILE DATA**

**MOBIL E&P SERVICES, INC.
NVAU #213**

N/A
12-Aug-97

MEASURED DEPTH	ANGLE DEG	DIRECTION DEG	VERTICAL DEPTH	LATITUDE (Ft.)	DEPARTURE (Ft.)	VERTICAL SECTION	DOG LEG	TOOL FACE
8425.00	0.000	0.000	8425.00	0.00	0.00	0.00		
8428.00	0.000	0.000	8428.00	0.00	0.00	0.00	0.000	0.000
8430.00	0.750	132.500	8430.00	0.01 S	0.01 E	0.01		
8436.00	3.000	132.500	8436.00	0.14 S	0.15 E	0.21	37.500	132.500
8440.00	4.600	132.500	8439.99	0.32 S	0.35 E	0.47		
8450.00	8.600	132.500	8449.92	1.10 S	1.20 E	1.62		
8460.00	12.600	132.500	8459.75	2.34 S	2.55 E	3.46		
8466.00	15.000	132.500	8465.57	3.31 S	3.61 E	4.89	40.000	0.000
8470.00	17.400	132.500	8469.41	4.06 S	4.43 E	6.01		
8480.00	23.400	132.500	8478.78	6.41 S	7.00 E	9.49		
8490.00	29.400	132.500	8487.74	9.42 S	10.28 E	13.94		
8500.00	35.400	132.500	8496.17	13.03 S	14.23 E	19.29		
8510.00	41.400	132.500	8504.01	17.23 S	18.80 E	25.50		
8520.00	47.400	132.500	8511.15	21.95 S	23.96 E	32.50		
8530.00	53.400	132.500	8517.52	27.16 S	29.64 E	40.20		
8540.00	59.400	132.500	8523.05	32.78 S	35.78 E	48.52		
8550.00	65.400	132.500	8527.68	38.77 S	42.31 E	57.38		
8560.00	71.400	132.500	8531.36	45.04 S	49.16 E	66.67		
8570.00	77.400	132.500	8534.05	51.55 S	56.26 E	76.30		
8580.00	83.400	132.500	8535.72	58.21 S	63.52 E	86.16		
8590.00	89.400	132.500	8536.35	64.95 S	70.88 E	96.13		
8590.48	89.688	132.500	8536.35	65.27 S	71.23 E	96.61	60.000	0.000
8600.00	89.688	132.500	8536.40	71.70 S	78.25 E	106.13		
8610.00	89.688	132.500	8536.46	78.46 S	85.62 E	116.13		
8620.00	89.688	132.500	8536.51	85.21 S	92.99 E	126.13		
8630.00	89.688	132.500	8536.56	91.97 S	100.37 E	136.13		
8640.00	89.688	132.500	8536.62	98.73 S	107.74 E	146.13		
8650.00	89.688	132.500	8536.67	105.48 S	115.11 E	156.13		
8660.00	89.688	132.500	8536.73	112.24 S	122.49 E	166.13		
8670.00	89.688	132.500	8536.78	118.99 S	129.86 E	176.13		
8680.00	89.688	132.500	8536.84	125.75 S	137.23 E	186.13		
8690.00	89.688	132.500	8536.89	132.50 S	144.60 E	196.13		
8700.00	89.688	132.500	8536.95	139.26 S	151.98 E	206.13		
8710.00	89.688	132.500	8537.00	146.02 S	159.35 E	216.13		
8720.00	89.688	132.500	8537.05	152.77 S	166.72 E	226.13		
8730.00	89.688	132.500	8537.11	159.53 S	174.09 E	236.13		
8740.00	89.688	132.500	8537.16	166.28 S	181.47 E	246.13		
8750.00	89.688	132.500	8537.22	173.04 S	188.84 E	256.13		
8760.00	89.688	132.500	8537.27	179.80 S	196.21 E	266.13		
8770.00	89.688	132.500	8537.33	186.55 S	203.58 E	276.13		
8780.00	89.688	132.500	8537.38	193.31 S	210.96 E	286.13		
8790.00	89.688	132.500	8537.44	200.06 S	218.33 E	296.13		
8800.00	89.688	132.500	8537.49	206.82 S	225.70 E	306.13		
8810.00	89.688	132.500	8537.54	213.57 S	233.08 E	316.13		
8820.00	89.688	132.500	8537.60	220.33 S	240.45 E	326.13		

**SPERRY-SUN DRILLING SERVICES
WELL PROFILE DATA**

**MOBIL E&P SERVICES, INC.
NVAU #213**

N/A
12-Aug-97

MEASURED DEPTH	ANGLE DEG	DIRECTION DEG	VERTICAL DEPTH	LATITUDE (FL)	DEPARTURE (FL)	VERTICAL SECTION	DOG LEG	TOOL FACE
8830.00	89.688	132.500	8537.65	227.09 S	247.82 E	336.13		
8840.00	89.688	132.500	8537.71	233.84 S	255.19 E	346.13		
8850.00	89.688	132.500	8537.76	240.60 S	262.57 E	356.13		
8860.00	89.688	132.500	8537.82	247.35 S	269.94 E	366.13		
8870.00	89.688	132.500	8537.87	254.11 S	277.31 E	376.13		
8880.00	89.688	132.500	8537.93	260.87 S	284.68 E	386.13		
8890.00	89.688	132.500	8537.98	267.62 S	292.06 E	396.13		
8893.87	89.688	132.500	8538.00	270.24 S	294.91 E	400.00	0.000	0.000
8900.00	89.443	132.500	8538.05	274.38 S	299.43 E	406.13		
8910.00	89.043	132.500	8538.18	281.13 S	306.80 E	416.13		
8915.91	88.806	132.500	8538.29	285.12 S	311.16 E	422.04	4.000	180.000
8920.00	88.806	132.500	8538.38	287.89 S	314.17 E	426.13		
8930.00	88.806	132.500	8538.58	294.64 S	321.54 E	436.12		
8940.00	88.806	132.500	8538.79	301.40 S	328.92 E	446.12		
8950.00	88.806	132.500	8539.00	308.15 S	336.29 E	456.12		
8960.00	88.806	132.500	8539.21	314.90 S	343.66 E	466.12		
8970.00	88.806	132.500	8539.42	321.66 S	351.03 E	476.11		
8980.00	88.806	132.500	8539.63	328.41 S	358.40 E	486.11		
8990.00	88.806	132.500	8539.83	335.17 S	365.77 E	496.11		
9000.00	88.806	132.500	8540.04	341.92 S	373.14 E	506.11		
9010.00	88.806	132.500	8540.25	348.68 S	380.51 E	516.11		
9020.00	88.806	132.500	8540.46	355.43 S	387.88 E	526.10		
9030.00	88.806	132.500	8540.67	362.18 S	395.26 E	536.10		
9040.00	88.806	132.500	8540.88	368.94 S	402.63 E	546.10		
9050.00	88.806	132.500	8541.08	375.69 S	410.00 E	556.10		
9060.00	88.806	132.500	8541.29	382.45 S	417.37 E	566.10		
9070.00	88.806	132.500	8541.50	389.20 S	424.74 E	576.09		
9080.00	88.806	132.500	8541.71	395.96 S	432.11 E	586.09		
9090.00	88.806	132.500	8541.92	402.71 S	439.48 E	596.09		
9100.00	88.806	132.500	8542.13	409.47 S	446.85 E	606.09		
9110.00	88.806	132.500	8542.33	416.22 S	454.23 E	616.08		
9120.00	88.806	132.500	8542.54	422.97 S	461.60 E	626.08		
9130.00	88.806	132.500	8542.75	429.73 S	468.97 E	636.08		
9140.00	88.806	132.500	8542.96	436.48 S	476.34 E	646.08		
9150.00	88.806	132.500	8543.17	443.24 S	483.71 E	656.08		
9160.00	88.806	132.500	8543.38	449.99 S	491.08 E	666.07		
9170.00	88.806	132.500	8543.58	456.75 S	498.45 E	676.07		
9180.00	88.806	132.500	8543.79	463.50 S	505.82 E	686.07		
9190.00	88.806	132.500	8544.00	470.26 S	513.20 E	696.07		
9200.00	88.806	132.500	8544.21	477.01 S	520.57 E	706.07		
9210.00	88.806	132.500	8544.42	483.76 S	527.94 E	716.06		
9220.00	88.806	132.500	8544.63	490.52 S	535.31 E	726.06		
9230.00	88.806	132.500	8544.83	497.27 S	542.68 E	736.06		
9240.00	88.806	132.500	8545.04	504.03 S	550.05 E	746.06		
9250.00	88.806	132.500	8545.25	510.78 S	557.42 E	756.05		

**SPERRY-SUN DRILLING SERVICES
WELL PROFILE DATA**

MOBIL E&P SERVICES, INC.
NVAU #213

N/A
12-Aug-97

MEASURED DEPTH	ANGLE DEG	DIRECTION DEG	VERTICAL DEPTH	LATITUDE (Ft)	DEPARTURE (Ft)	VERTICAL SECTION	DOG LEG	TOOL FACE
9260.00	88.806	132.500	8545.46	517.54 S	564.79 E	766.05		
9270.00	88.806	132.500	8545.67	524.29 S	572.16 E	776.05		
9280.00	88.806	132.500	8545.87	531.05 S	579.54 E	786.05		
9290.00	88.806	132.500	8546.08	537.80 S	586.91 E	796.05		
9300.00	88.806	132.500	8546.29	544.55 S	594.28 E	806.04		
9310.00	88.806	132.500	8546.50	551.31 S	601.65 E	816.04		
9320.00	88.806	132.500	8546.71	558.06 S	609.02 E	826.04		
9330.00	88.806	132.500	8546.92	564.82 S	616.39 E	836.04		
9340.00	88.806	132.500	8547.12	571.57 S	623.76 E	846.03		
9350.00	88.806	132.500	8547.33	578.33 S	631.13 E	856.03		
9360.00	88.806	132.500	8547.54	585.08 S	638.51 E	866.03		
9370.00	88.806	132.500	8547.75	591.84 S	645.88 E	876.03		
9380.00	88.806	132.500	8547.96	598.59 S	653.25 E	886.03		
9390.00	88.806	132.500	8548.17	605.34 S	660.62 E	896.02		
9400.00	88.806	132.500	8548.37	612.10 S	667.99 E	906.02		
9410.00	88.806	132.500	8548.58	618.85 S	675.36 E	916.02		
9420.00	88.806	132.500	8548.79	625.61 S	682.73 E	926.02		
9430.00	88.806	132.500	8549.00	632.36 S	690.10 E	936.02		
9440.00	88.806	132.500	8549.21	639.12 S	697.47 E	946.01		
9450.00	88.806	132.500	8549.42	645.87 S	704.85 E	956.01		
9460.00	88.806	132.500	8549.62	652.63 S	712.22 E	966.01		
9470.00	88.806	132.500	8549.83	659.38 S	719.59 E	976.01		
9480.00	88.806	132.500	8550.04	666.13 S	726.96 E	986.00		
9490.00	88.806	132.500	8550.25	672.89 S	734.33 E	996.00		
9500.00	88.806	132.500	8550.46	679.64 S	741.70 E	1006.00		
9510.00	88.806	132.500	8550.67	686.40 S	749.07 E	1016.00		
9520.00	88.806	132.500	8550.87	693.15 S	756.44 E	1026.00		
9530.00	88.806	132.500	8551.08	699.91 S	763.82 E	1035.99		
9540.00	88.806	132.500	8551.29	706.66 S	771.19 E	1045.99		
9550.00	88.806	132.500	8551.50	713.42 S	778.56 E	1055.99		
9560.00	88.806	132.500	8551.71	720.17 S	785.93 E	1065.99		
9570.00	88.806	132.500	8551.92	726.92 S	793.30 E	1075.99		
9580.00	88.806	132.500	8552.12	733.68 S	800.67 E	1085.98		
9590.00	88.806	132.500	8552.33	740.43 S	808.04 E	1095.98		
9600.00	88.806	132.500	8552.54	747.19 S	815.41 E	1105.98		
9610.00	88.806	132.500	8552.75	753.94 S	822.79 E	1115.98		
9620.00	88.806	132.500	8552.96	760.70 S	830.16 E	1125.97		
9630.00	88.806	132.500	8553.17	767.45 S	837.53 E	1135.97		
9640.00	88.806	132.500	8553.37	774.21 S	844.90 E	1145.97		
9650.00	88.806	132.500	8553.58	780.96 S	852.27 E	1155.97		
9660.00	88.806	132.500	8553.79	787.71 S	859.64 E	1165.97		
9670.00	88.806	132.500	8554.00	794.47 S	867.01 E	1175.96		
9680.00	88.806	132.500	8554.21	801.22 S	874.38 E	1185.96		
9690.00	88.806	132.500	8554.42	807.98 S	881.75 E	1195.96		
9700.00	88.806	132.500	8554.62	814.73 S	889.13 E	1205.96		

**SPERRY-SUN DRILLING SERVICES
WELL PROFILE DATA**

**MOBIL E&P SERVICES, INC.
NVAU #213**

N/A
12-Aug-97

MEASURED DEPTH	ANGLE DEG	DIRECTION DEG	VERTICAL DEPTH	LATITUDE (Ft)	DEPARTURE (Ft)	VERTICAL SECTION	DOG LEG	TOOL FACE
9710.00	88.806	132.500	8554.83	821.49 S	896.50 E	1215.96		
9720.00	88.806	132.500	8555.04	828.24 S	903.87 E	1225.95		
9730.00	88.806	132.500	8555.25	834.99 S	911.24 E	1235.95		
9740.00	88.806	132.500	8555.46	841.75 S	918.61 E	1245.95		
9750.00	88.806	132.500	8555.67	848.50 S	925.98 E	1255.95		
9760.00	88.806	132.500	8555.87	855.26 S	933.35 E	1265.94		
9770.00	88.806	132.500	8556.08	862.01 S	940.72 E	1275.94		
9780.00	88.806	132.500	8556.29	868.77 S	948.10 E	1285.94		
9790.00	88.806	132.500	8556.50	875.52 S	955.47 E	1295.94		
9800.00	88.806	132.500	8556.71	882.28 S	962.84 E	1305.94		
9810.00	88.806	132.500	8556.92	889.03 S	970.21 E	1315.93		
9814.07	88.806	132.500	8557.00	891.78 S	973.21 E	1320.00	0.000	0.000

**The Dogleg Severity is in Degrees per 100.00 Feet
Vertical Section was calculated along an Azimuth of 132.500° (True)**

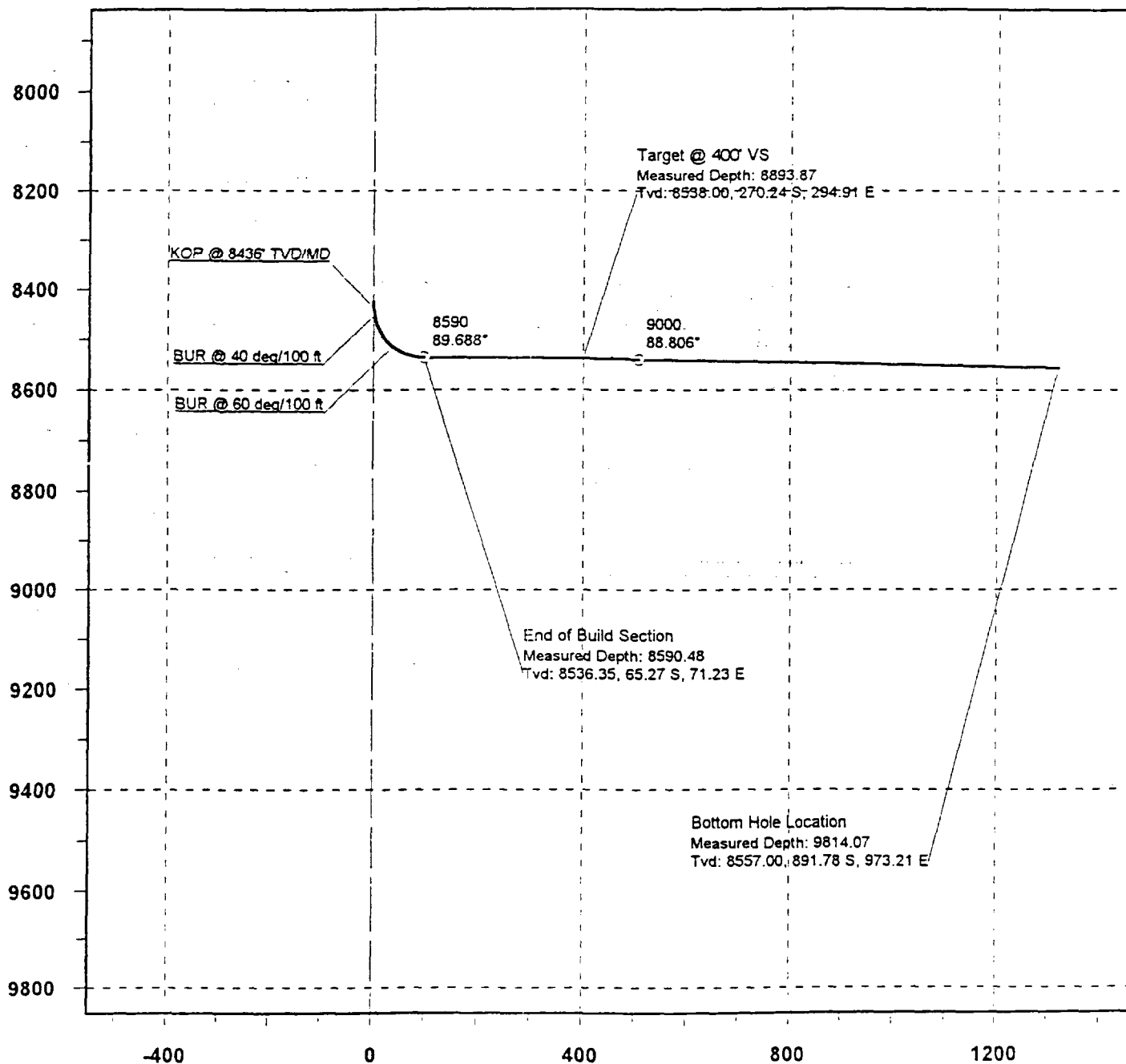
**Based upon Minimum Curvature type calculations. At a Measured Depth of 9814.07 Feet,
the Bottom Hole Displacement is 1320.00 Feet, in the Direction of 132.500° (True)**

SPERRY-SUN DRILLING SERVICES VERTICAL SECTION

MOBIL E&P SERVICES, INC.
NVAU #213

N/A
12-Aug-97

VERTICAL
DEPTH



VERTICAL SECTION - Direction: 132.500° (True)

Depths shown on plot are Measured Depths.

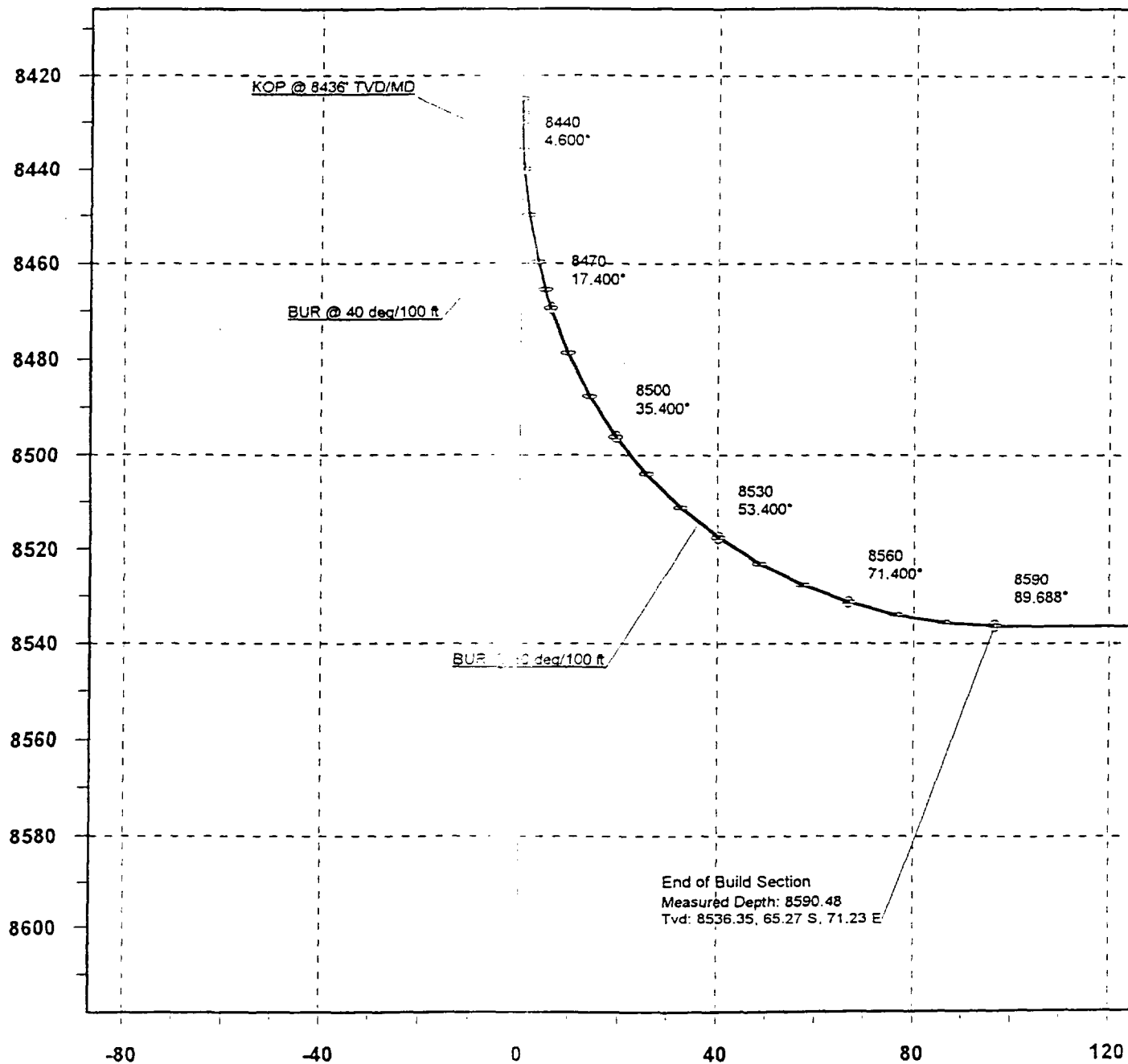
All measurements are in Feet.

SPERRY-SUN DRILLING SERVICES VERTICAL SECTION

MOBIL E&P SERVICES, INC.
NVAU #213

N/A
12-Aug-97

VERTICAL
DEPTH



VERTICAL SECTION - Direction: 132.500° (True)

Depths shown on plot are Measured Depths.

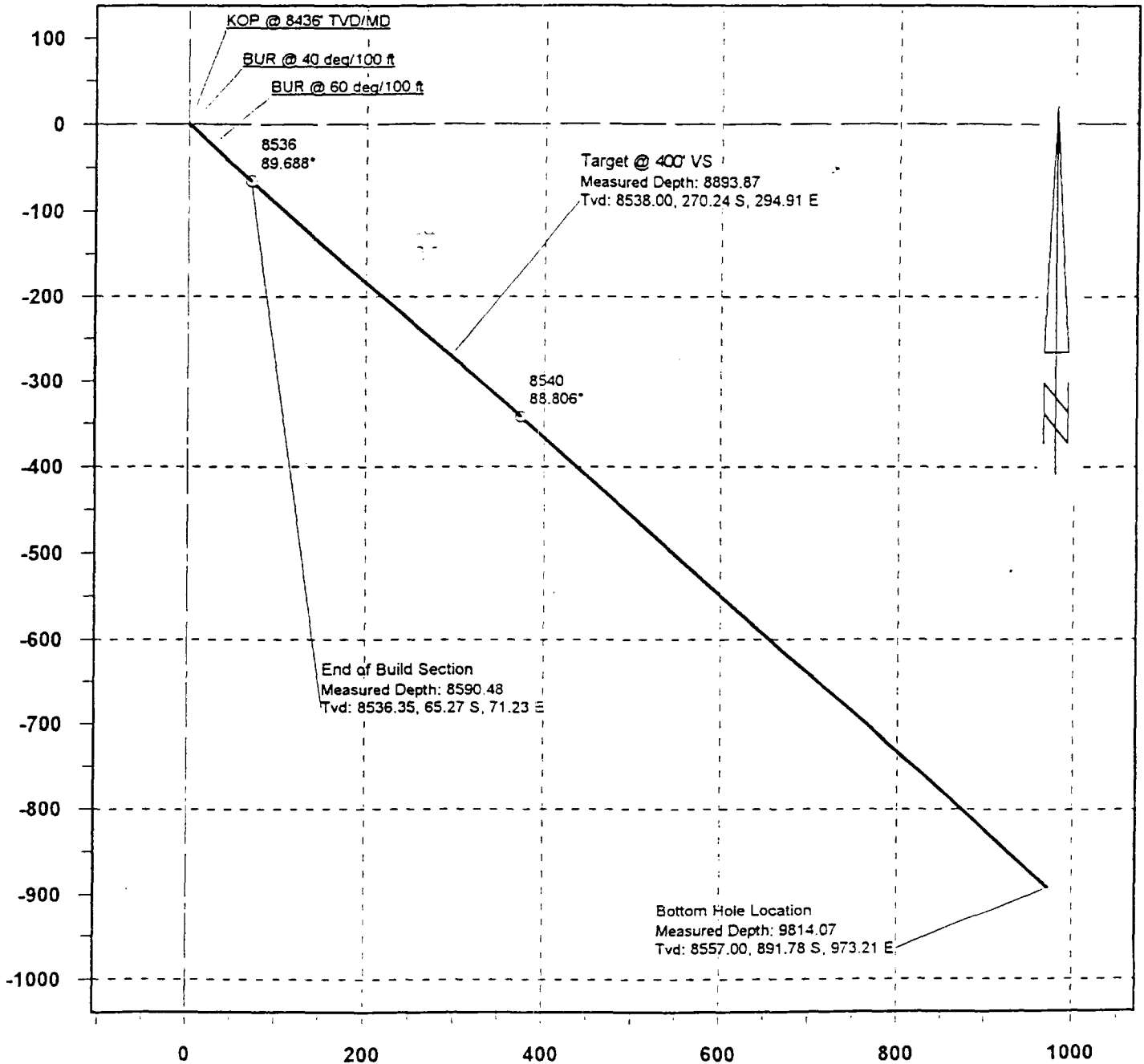
All measurements are in Feet.

SPERRY-SUN DRILLING SERVICES HORIZONTAL SECTION

MOBIL E&P SERVICES, INC.
NVAU #213

N/A
12-Aug-97

LATITUDE
VALUES



DEPARTURE VALUES
Depths shown on plot are Vertical Depths.
All measurements are in Feet.

Submit to Appropriate
District Office
State Lease - 6 copies
Fee Lease - 5 copies

DISTRICT I

J. Box 1980, Hobbs, NM 88240

DISTRICT II

P.O. Drawer DD, Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 Pacheco St.
Santa Fe, NM 87505

Form C-105
Revised 1-1-89

WELL API NO.

30-025-23982

5. Indicate Type Of Lease

STATE ☒

FEE ☐

6. State Oil & Gas Lease No.

B-1520-1

7. Lease Name or Unit Agreement Name

NORTH VACUUM ABO UNIT

8. Well No.

213W

9. Pool name or Wildcat

NORTH VACUUM ABO

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well:
OIL WELL ☐ GAS WELL ☐ DRY ☐ OTHER ☒ INJECTOR/SIDETRACK

b. Type of Completion:

NEW WELL ☐ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF RESVR ☐ OTHER ☐ SIDETRACK

2. Name of Operator MOBIL PRODUCING TX & NM INC.*
*MOBIL EXPLORATION & PRODUCING US INC. AS AGENT FOR MPTM

3. Address of Operator
P. O. BOX 633, MIDLAND, TEXAS 79702

4. Well Location

Unit Letter N : 460 Feet From The SOUTH Line and 1980 Feet From The WEST Line

*BHL: UT. LTR B, SEC. 26, T17S, R34E, 688' FSL & 800' FEL

Section 23 Township 17S Range 34E NMPM LEA County

10. Date Spudded 11-23-97 11. Date T.D. Reached 12-10-97 12. Date Compl.(Ready to Prod.) 12-23-97 13. Elevations(DF & RKB, RT, GR, etc.) 4013' GR 14. Elev. Casinghead

15. Total Depth 9423' TMD 16. Plug Back T.D. 9423' TMD 17. If Multiple Compl. How Many Zones? 18. Intervals Drilled By X Rotary Tools Cable Tools

19. Producing Interval(s), of this completion - Top, Bottom, Name 8752-9423' TMD OHZ ABO 20. Was Directional Survey Made YES

Type Electric and Other Logs Run

NA 22. Was Well Cored NO

23. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
12 3/4"	34#	250'	15"	CIRC. SURFACE	
8 5/8"	28#	3035'	11"	CIRC. SURFACE	
5 1/2"	17#	8700'	7 7/8"	CIRC. SURFACE	

24. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2 7/8"		8209'

25. TUBING RECORD

26. Perforation record (interval, size, and number)

LATERAL #1A1 8752-9423' TMD OHZ

27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.

DEPTH INTERVAL AMOUNT AND KIND MATERIAL USED

8752-9423' ACIDIZE LATERAL #1A1 W/10000 GALS 20% HCL ACID

28. PRODUCTION

Date First Production 1-01-98 Production Method (Flowing, gas lift, pumping - Size and type pump) INJECTOR Well Status (Prod. or Shut-in)

Date of Test 1-27-98 Hours Tested 24 Choke Size Prod'n For Test Period Oil - Bbl. Gas - MCF Water - Bbl. Gas - Oil Ratio 200

Flow Tubing Press. 4100 Casing Pressure Calculated 24-Hour Rate Oil - Bbl. Gas - MCF Water - Bbl. Oil Gravity - API (Corr.)

29. Disposition of Gas (Sold, used for fuel, vented, etc.)

Test Witnessed By

30. List Attachments

DIRECTIONAL SURVEY

31. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief

Signature Shirley Houchins

Printed Name

SHIRLEY HOUCHINS

Title

ENV & REG TECH

Date

1-29-98

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
S. 1st Street, Artesia, NM 88210-2834
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C-107
Revised October 18,
Instructions o
Submit to Appropriate District
State Lease - 4
Fee Lease - 3 C

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-23982	² Pool Code 61760	³ Pool Name NORTH VACUUM ABO
⁴ Property Code 8055	⁵ Property Name NORTH VACUUM ABO UNIT	⁶ Well Number 213W
⁷ OGRID No. 15144	⁸ Operator Name MOBIL PRODUCING TX & NM INC. *MOBIL EXPLORATION & PRODUCING US INC. AS AGENT FOR MPTM	⁹ Elevation 4028' GR

¹⁰ Surface Location									
UL or lot no. N	Section 23	Township 17S	Range 34E	Lot. Idn	Feet from the 460	North/South Line SOUTH	Feet from the 1980	East/West line WEST	County LEA

¹¹ Bottom Hole Location If Different From Surface

UL or lot no. B	Section 26	Township 17S	Range 34E	Lot. Idn	Feet from the 688	North/South Line SOUTH	Feet from the 800	East/West line EAST	County LEA
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¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
-------------------------------	-------------------------------	----------------------------------	-------------------------

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

				¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Shirley Houchins Signature SHIRLEY HOUCHINS Printed Name ENV & REG TECHNICIAN Title 1-26-98 Date
				¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Date of Survey Signature and Seal of Professional Surveyer: Certificate Number

sperry-sun

DRILLING SERVICES

A DRESSER INDUSTRIES, INC. COMPANY

*Mobil Exploration
Vacuum Field (PA/WC)
Lea County
Sec. 23-T17S-R34E
NV ABO #213 - MWD Survey*

SURVEY REPORT

10 December, 1997

Survey Ref: svy2392

Sperry-Sun Drilling Services

Survey Report for NV ABO #213 - MWD Survey



Mobil Exploration
Vacuum Field (PA/WC)

Lea County
Sec. 23-T17S-R34E

Measured Depth (ft)	Incl.	Azim.	Vertical Depth (ft)	Northings (ft)	Eastings (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
8300.00	1.400	162.560	8299.11	16.32 S	68.41 E	61.47	
8310.00	7.200	132.500	8309.08	16.86 S	68.91 E	62.20	60.290
8320.00	8.700	132.500	8318.98	17.80 S	69.93 E	63.58	15.000
8330.00	10.200	132.500	8328.85	18.91 S	71.14 E	65.23	15.000
8340.00	11.900	132.500	8338.66	20.20 S	72.56 E	67.14	17.000
8350.00	13.400	132.500	8348.42	21.68 S	74.17 E	69.33	15.000
8360.00	14.500	143.910	8358.13	23.48 S	75.76 E	71.72	29.565
8370.00	16.000	143.700	8367.77	25.60 S	77.32 E	74.30	15.010
8380.00	18.900	143.300	8377.31	28.01 S	79.10 E	77.24	29.025
8390.00	22.500	141.300	8386.66	30.80 S	81.27 E	80.72	36.683
8400.00	26.000	138.300	8395.78	33.93 S	83.92 E	84.80	37.095
8410.00	28.900	133.700	8404.66	37.24 S	87.13 E	89.39	35.907
8420.00	32.000	129.700	8413.28	40.60 S	90.91 E	94.46	37.025
8430.00	35.600	127.700	8421.58	44.07 S	95.26 E	100.01	37.676
8440.00	39.000	129.200	8429.54	47.84 S	100.00 E	106.05	35.192
8450.00	42.400	132.000	8437.12	52.09 S	104.95 E	112.57	38.586
8460.00	44.500	134.600	8444.38	56.81 S	109.95 E	119.44	27.578
8470.00	47.200	133.300	8451.34	61.79 S	115.11 E	126.61	28.565
8480.00	48.900	132.400	8458.03	66.84 S	120.57 E	134.05	18.270
8490.00	50.600	132.100	8464.49	71.97 S	126.22 E	141.68	17.153
8500.00	52.400	132.100	8470.71	77.22 S	132.02 E	149.51	18.000
8510.00	54.200	131.800	8476.69	82.58 S	137.99 E	157.52	18.160
8520.00	55.900	131.900	8482.42	88.05 S	144.09 E	165.72	17.020
8530.00	58.000	131.600	8487.87	93.63 S	150.34 E	174.10	21.150
8540.00	59.600	131.200	8493.05	99.29 S	156.76 E	182.65	16.362
8550.00	61.600	131.100	8497.96	105.02 S	163.32 E	191.36	20.019
8560.00	63.400	131.400	8502.58	110.87 S	169.99 E	200.23	18.196
8570.00	63.800	132.300	8507.03	116.84 S	176.66 E	209.19	8.999
8580.00	64.300	132.800	8511.40	122.92 S	183.29 E	218.18	6.724
8590.00	65.700	132.500	8515.63	129.06 S	189.95 E	227.24	14.262
8600.00	67.000	131.700	8519.64	135.20 S	196.75 E	236.40	14.923
8610.00	68.800	133.000	8523.40	141.45 S	203.59 E	245.67	21.658
8620.00	70.300	133.200	8526.89	147.85 S	210.44 E	255.03	15.117
8630.00	71.800	132.200	8530.14	154.26 S	217.39 E	264.49	17.733
8640.00	73.400	132.400	8533.13	160.68 S	224.44 E	274.03	16.113
8650.00	74.900	132.200	8535.86	167.16 S	231.56 E	283.65	15.123
8660.00	75.800	132.700	8538.39	173.69 S	238.70 E	293.33	10.218
8670.00	77.400	132.200	8540.71	180.25 S	245.87 E	303.06	16.723
8680.00	78.600	132.400	8542.79	186.84 S	253.11 E	312.84	12.158
8690.00	80.400	132.400	8544.61	193.47 S	260.37 E	322.67	18.000

Continued...

Sperry-Sun Drilling Services

Survey Report for NV ABO #213 - MWD Survey



Mobil Exploration
Vacuum Field (PAWC)

Lea County
Sec. 23-T17S-R34E

Measured Depth (ft)	Incl.	Azim.	Vertical Depth (ft)	Northings (ft)	Eastings (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
8700.00	82.000	132.200	8546.14	200.12 S	267.68 E	332.55	16.122
8710.00	83.500	132.200	8547.40	206.78 S	275.03 E	342.47	15.000
8720.00	85.100	132.000	8548.40	213.45 S	282.41 E	352.42	16.123
8752.00	89.200	132.600	8549.99	234.96 S	306.04 E	384.37	12.949
8773.00	90.100	132.500	8550.12	249.16 S	321.51 E	405.37	4.312
8805.00	88.400	132.000	8550.53	270.67 S	345.20 E	437.37	5.537
8836.00	87.300	131.300	8551.70	291.26 S	368.34 E	468.34	4.205
8867.00	86.500	130.700	8553.37	311.56 S	391.71 E	499.29	3.224
8899.00	88.200	132.200	8554.85	332.72 S	415.66 E	531.24	7.081
8929.00	89.300	132.700	8555.51	352.97 S	437.79 E	561.24	4.028
8961.00	88.400	132.500	8556.15	374.62 S	461.34 E	593.23	2.881
8992.00	88.600	130.200	8556.96	395.09 S	484.61 E	624.21	7.445
9022.00	89.600	129.400	8557.43	414.29 S	507.65 E	654.17	4.269
9053.00	90.600	129.100	8557.38	433.91 S	531.66 E	685.12	3.368
9085.00	91.100	128.700	8556.90	454.00 S	556.56 E	717.06	2.001
9116.00	90.700	129.800	8556.42	473.61 S	580.56 E	748.00	3.775
9146.00	91.800	130.500	8555.76	492.95 S	603.49 E	777.97	4.346
9177.00	90.700	131.000	8555.09	513.18 S	626.96 E	808.95	3.898
9208.00	91.600	132.700	8554.46	533.86 S	650.05 E	839.94	6.204
9239.00	91.800	134.500	8553.54	555.23 S	672.49 E	870.92	5.840
9270.00	90.600	135.200	8552.90	577.08 S	694.46 E	901.88	4.481
9301.00	89.100	135.900	8552.98	599.21 S	716.17 E	932.84	5.340
9332.00	88.900	135.900	8553.52	621.47 S	737.74 E	963.78	0.645
9393.00	92.100	137.400	8552.99	665.82 S	779.60 E	1024.61	5.793
9423.00	92.100	137.400	8551.89	687.89 S	799.90 E	1054.48	0.000

All data is in feet unless otherwise stated. Directions and coordinates are relative to True North.
Vertical depths are relative to RKB. Northings and Eastings are relative to Wellhead.

The Dogleg Severity is in Degrees per 100ft.

Vertical Section is from Wellhead and calculated along an Azimuth of 132.500° (True).

Based upon Minimum Curvature type calculations, at a Measured Depth of 9423.00ft.,
The Bottom Hole Displacement is 1055.00ft., in the Direction of 130.695° (True).

Sperry-Sun Drilling Services

Survey Report for NV ABO #213 - MWD Survey



Mobil Exploration
Vacuum Field (PAWC)

Lea County
Sec. 23-T17S-R34E

	Measured Depth (ft)	Incl.	Azim.	Vertical Depth (ft)	Northings (ft)	Eastings (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
	8700.00	82.000	132.200	8546.14	200.12 S	267.68 E	332.55	16.122
	8710.00	83.500	132.200	8547.40	206.78 S	275.03 E	342.47	15.000
	8720.00	85.100	132.000	8548.40	213.45 S	282.41 E	352.42	16.123
Btm Curve	8752.00	89.200	132.600	8549.99	234.96 S	306.04 E	384.37	12.949
	8773.00	90.100	132.500	8550.12	249.16 S	321.51 E	405.37	4.312
	8805.00	88.400	132.000	8550.53	270.67 S	345.20 E	437.37	5.537
	8836.00	87.300	131.300	8551.70	291.26 S	368.34 E	468.34	4.205
	8867.00	86.500	130.700	8553.37	311.56 S	391.71 E	499.29	3.224
	8899.00	88.200	132.200	8554.85	332.72 S	415.66 E	531.24	7.081
	8929.00	89.300	132.700	8555.51	352.97 S	437.79 E	561.24	4.028
	8961.00	88.400	132.500	8556.15	374.62 S	461.34 E	593.23	2.881
	8992.00	88.600	130.200	8556.96	395.09 S	484.61 E	624.21	7.445
	9022.00	89.600	129.400	8557.43	414.29 S	507.65 E	654.17	4.269
	9053.00	90.600	129.100	8557.38	433.91 S	531.66 E	685.12	3.368
	9085.00	91.100	128.700	8556.90	454.00 S	556.56 E	717.06	2.001
	9116.00	90.700	129.800	8556.42	473.61 S	580.56 E	748.00	3.775
	9146.00	91.800	130.500	8555.76	492.95 S	603.49 E	777.97	4.346
	9177.00	90.700	131.000	8555.09	513.18 S	626.96 E	808.95	3.898
	9208.00	91.600	132.700	8554.46	533.86 S	650.05 E	839.94	6.204
	9239.00	91.800	134.500	8553.54	555.23 S	672.49 E	870.92	5.840
	9270.00	90.600	135.200	8552.90	577.08 S	694.46 E	901.88	4.481
	9301.00	89.100	135.900	8552.98	599.21 S	716.17 E	932.84	5.340
	9332.00	88.900	135.900	8553.52	621.47 S	737.74 E	963.78	0.645
	9393.00	92.100	137.400	8552.99	665.82 S	779.60 E	1024.61	5.793
	9423.00	92.100	137.400	8551.89	687.89 S	799.90 E	1054.48	0.000

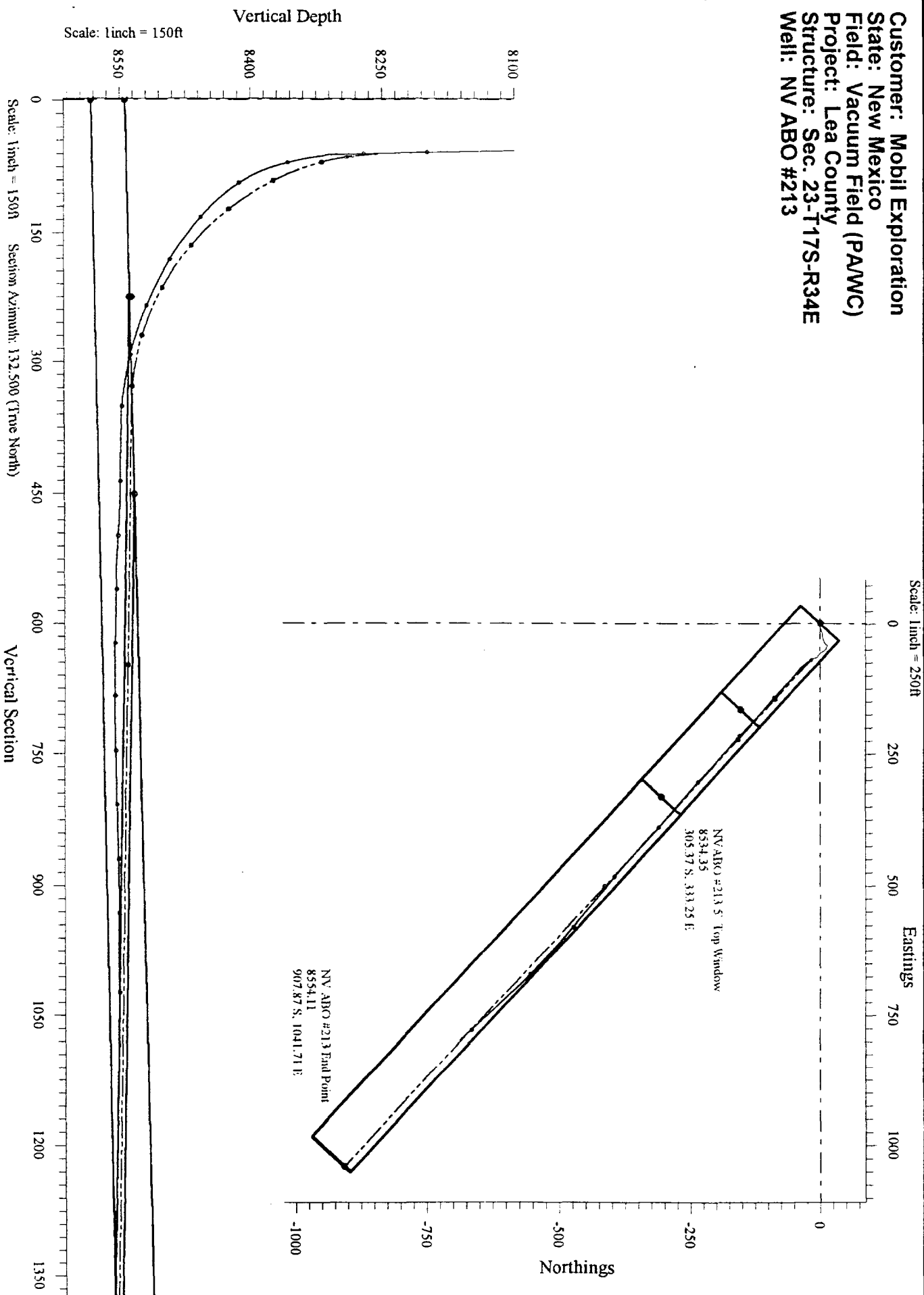
All data is in feet unless otherwise stated. Directions and coordinates are relative to True North.
Vertical depths are relative to RKB. Northings and Eastings are relative to Wellhead.

The Dogleg Severity is in Degrees per 100ft.

Vertical Section is from Wellhead and calculated along an Azimuth of 132.500° (True).

Based upon Minimum Curvature type calculations, at a Measured Depth of 9423.00ft.,
The Bottom Hole Displacement is 1055.00ft., in the Direction of 130.695° (True).

Customer: Mobil Exploration
State: New Mexico
Field: Vacuum Field (PA/MC)
Project: Lea County
Structure: Sec. 23-T17S-R34E
Well: NV ABO #213



Submit 3 Copies
to Appropriate
District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-103
Revised 1-1-89

OIL CONSERVATION DIVISION

DISTRICT I

P.O. Box 1980, Hobbs NM 88241-1980

DISTRICT II

P.O. Drawer DD, Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

2040 Pacheco St.
Santa Fe, NM 87505

WELL API NO.	30-025-23982
5. Indicate Type of Lease	STATE ☒ FEE ☐
6. State Oil & Gas Lease No.	B-1520-1
7. Lease Name or Unit Agreement Name	NORTH VACUUM ABO UNIT
8. Well No.	213W
9. Pool name or Wildcat	NORTH VACUUM ABO
10. Elevation (Show whether DF, RKB, RT, GR, etc.)	4028' GR

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	
1. Type of Well: OIL WELL ☐ GAS WELL ☐ OTHER ☒ INJECTOR/HORIZONTAL	
2. Name of Operator MOBIL PRODUCING TX & NM INC.* *MOBIL EXPLORATION & PRODUCING US INC. AS AGENT FOR MPTM	
3. Address of Operator P.O. Box 633 Midland, TX 79702	
4. Well Location Unit Letter <u>N</u> : <u>460'</u> Feet From The <u>SOUTH</u> Line and <u>1980'</u> Feet From The <u>WEST</u> Line Section <u>23</u> Township <u>17S</u> Range <u>34E</u> NMPM <u>LEA</u> County	
10. Elevation (Show whether DF, RKB, RT, GR, etc.) 4028' GR	

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐
OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☒ PLUG AND ABANDONMENT ☐
CASING TEST AND CEMENT JOB ☐
OTHER: DRILLING HORIZONTAL SEGMENT ☒

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

BHL: UNIT LETTER B, SECTION 26, T-17-S, R34E
688' FSL & 800' FEL

SEE ATTACHED

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Shirley Houchins TITLE ENV & REG TECHNICIAN DATE 1-26-97

TYPE OR PRINT NAME SHIRLEY HOUCHINS TELEPHONE NO. 915 688-2585

(This space for State Use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

ATTACHMENT C-103
NORTH VACUUM ABO UNIT #213W
API # 30-025-23982

11-23-97 NOTIFIED NEW MEXICO OIL CONSERVATION COMMISSION OF INTENT TO MOVE ON SUBJECT WELL @ 12:30 P.M. CHARLES TOOK THE CALL.

11-24-97 MIRU WELL-CO RIG #91, CHANGE OUT WELLHEAD VALVE. RIG DOWN FLOWBACK LINE TO TANK. RU PUMP & PITS, SET IN REVERSE UT. & POWER PACKAGE. HAD 3200 PSI ON TBG. RIG TO FLOWBACK TO FRAC TANK THROUGH 3/4" CHOKE.

11-25-97 NU WELLHEAD, NU BOP, CIRC. WELL W/10#. LAY DOWN INJ. TBG & SEAL ASSY. RU WIRELINE. RUN GUAGE RING & JB, GR/CCL LOG F/8000-8312', TOP OF PKR @ 8312'. RIH W/5.5" 17# 10M "ALPHA" BRAND CIBP FOR WHIPSTOCK. TAG CIBP @ 8272' TBG TALLY DEPTH. SITP = 280 PSI BLEED OFF PRESUMED PRESSURE F/TEMP INCREASE OF WELLBORE FLUID. SDFN.

11-26-97 TAG CIBP @ 8272' TBG TALLY DEPTH. SITP = 280 PSI BLEED OFF PRESUMED PRESSURE F/TEMP INCREASE OF WELLBORE FLUID. SDFN.

11-27-97 CONFIRM CIBP SET @ 8300', CONFIRM WHIPSTOCK SETTING DEPTH., RDMO WEDGE WL. MIRU GYRODATA. RIH W/GYRO, SEAT IN UBHO SUB, ORIENT & SET WHIPSTOCK @ 132.3 DEG AZ. SURVEY WELLBORE OUT OF HOLE EVERY 200'. TOP OF WHIPSTOCK (WL DE PTH) @ 8284'.

11-28-97 RU POWER SWIVEL, RU STRIPPER RUBBER. BOP BOLT DROPPED IN HOLE WHILE N/U RUBBER. TOO H W/DP, RECOVER BOLT. TRIP BACK IN HOLE W/STARTER MILL, MILL 18", CIRC, POOH & LD MILL. SWI & SDFN.

11-29-97 PU & MU WINDOW & WATERMELON MILLS. RIH & TALLY DP. TAG WHIPSTOCK, PU SWIVEL & STRIPPER RUBBER. MILL 6' OFF WHIPSTOCK & 2' INTO FORMATION, WL CORRECTIONS: TOP OF WINDOW @ 8283', TOP OF WHIPSTOCK 8284', BTM WINDOW 8290', TD 8292'. CIRC WELLBORE W/SWEEP. RD SWIVEL, BEGIN RDMO PU. SWI & SDFN. WILL FINISH RD IN AM.

11-30-97 RDMO WELLCO RIG #91. LEAVE 267 JTS AOH DP IN HOLE W/WINDOW & WATERMELON MILLS (8279.5).

12-01-97 MIRU WELLCO RIG #89. SPOT PUMPS, PITS, RACKS, ETC. MIRU MACLASKEY SERVICES. PUMP 500 GAL 15% HCL, SPOT TO END OF DP @ 8279'. RU TO REVERSE OUT ACID.

12-02-97 FINISHED REV. OUT ACID. RDMO MACLASKEY. POOH LAY DN DP. P/U SPERRY DIRECTIONAL CURVE BUILD. ASSY/MWD/ORIENT & TEST. PU RIH W/PH-6 HYDRIL TBG ON AHO DP TO 8292' WL DEPTH (DRLG STING DEPTH 8264'). R/U SWIVEL/ BIW STRIPPER CIRC 15 MIN. DISPL. DRLG STRING. R/U GYRODATA RIH ORIENT TF, DRLG W/LOW PUMP PSI F/8290-8292'. CONT. TIME DRLG F/8292-8301', POOH W/GRYO MADE CONN. ORIENT TF. DRILL CURVE.

12-03-97 SLIDE DRLG CURVE F/8303-8335', POH W/GYRO R/D REL GYRODATA. HS OF MWD SLIDE DRLG F/8335-8375', CHANGE OUT TOOL, DRLG CURVE F/8375-8385'.

12-04-97 CONT. DRLG CURVE F/8385-8502', CONN./SURVEYS.

12-05-97 CONT. DRLG CURVE F/8502-8712', W/SURVEYS/CONN.

12-06-97 SLIDE/ROTATE DRLG CURVE F/8502-8752', LANDED CURVE @ 8752', 89.2 AMZ, 132.6, TVD @ 8549.91; 239.4' SOUTH 304.67 EAST; 386.37 SV, 12.95 DOG LEG. DRLG LATERAL 1A1 W/SAME BHA ROT/SLIDE/CONN./SURVEY/ F/8752-9053'.

12-07-97 CONT. DRLG LATERAL 1A1 F/9053-9238'.

12-08-97 CONT. DRLG LATERAL 1A1 F/9238-9423 TD., POOH W/AOH DP.

