

CORRECTED BHL: TO LEASE LINES

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

P.O. 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

Form C-105
Revised 1-1-89

OIL CONSERVATION DIVISION

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

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: SEC. 26, T17S, R34E, (228' NORTH & 2780' WEST) LEA COUNTY, NM. Unit B
Section 23 Township 17S Range 34E NMPM LEA County

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

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

19. Producing Interval(s), of this completion - Top, Bottom, Name

8752-9423' TMD OHZ ABO

21. Type Electric and Other Logs Run

NA

20. Was Directional Survey Made
YES

22. Was Well Cored
NO

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	

LINER RECORD

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

TUBING RECORD

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

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

LATERAL #1A1 8752-9423' TMD OHZ

27. ACID, SHOT, FRACTURE, CEMENT, SOEEZE, 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) Well Status (Prod. or Shut-in)
INJECTOR

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

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 3-12-98

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 25 through 29 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE
 Southeastern New Mex.

Southeastern New Mexico

Northeastern New Mexico

T. Anhy _____	T. Canyon _____	T. Ojo Alamo _____	T. Penn. "B" _____
T. Salt _____	T. Strawn _____	T. Kirtland-Fruitland _____	T. Penn. "C" _____
B. Salt _____	T. Atoka _____	T. Pictured Cliffs _____	T. Penn. "D" _____
T. Yates _____ 2836'	T. Miss _____	T. Cliff House _____	T. Leadville _____
T. 7 Rivers _____	T. Devonian _____	T. Menefee _____	T. Madison _____
T. Queen _____ 3789'	T. Silurian _____	T. Point Lookout _____	T. Elbert _____
T. Grayburg _____	T. Montoya _____	T. Mancos _____	T. McCracken _____
T. San Andres _____ 4521'	T. Simpson _____	T. Gallup _____	T. Ignacio Otzte _____
T. Glorieta _____ 5969'	T. McKee _____	Base Greenhorn _____	T. Granite _____
T. Paddock _____ 6076'	T. Ellenburger _____	T. Dakota _____	T. _____
T. Blinebry _____ 6739'	T. Gr. Wash _____	T. Morrison _____	T. _____
T. Tubb _____ 7349'	T. Delaware Sand _____	T. Todilto _____	T. _____
T. Drinkard _____	T. Bone Springs _____	T. Entrada _____	T. _____
T. Abo _____ 8063'	T. _____	T. Wingate _____	T. _____
T. Wolfcamp _____	T. _____	T. Chinle _____	T. _____
T. Penn _____	T. _____	T. Permian _____	T. _____
T. Cisco (Bough C) _____	T. _____	T. Penn "A" _____	T. _____

OIL OR GAS SANDS OR ZONES

No. 1, from _____ to _____

No. 2, from _____ to _____

No. 3, from _____ to _____

No. 4, from _____ to _____

IMPORTANT WATER CAMPS

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.
No. 1 from

No. 1, from to feet

No. 2, from to feet

No. 3, from to feet

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness in Feet	Lithology

From	To	Thickness in Feet	Lithology

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 (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)
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.

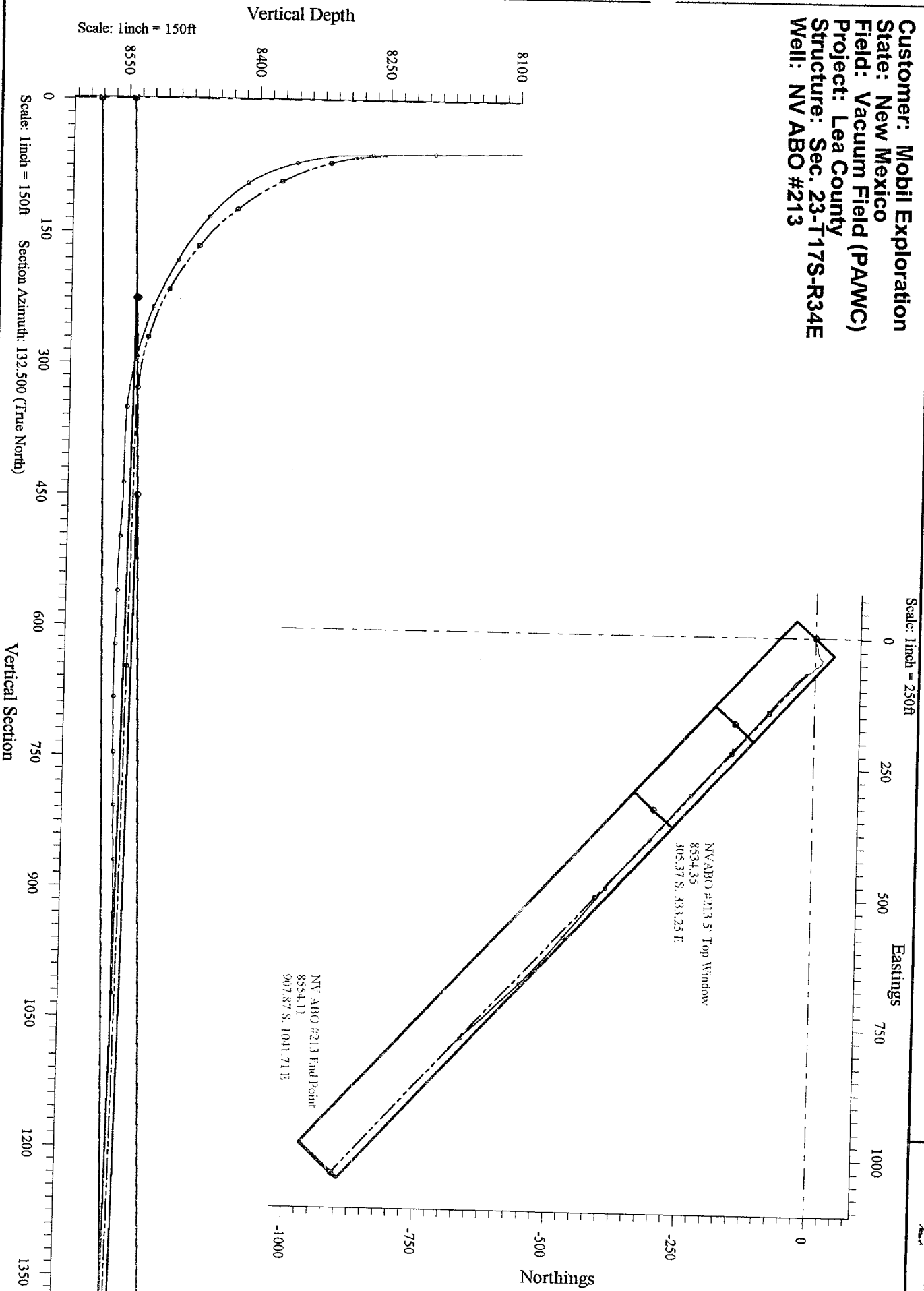
Vertical Section is from Wellhead and calculated along an Azimuth of 132.500° (True).

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).

Well: NV ABO #213

DrillQuest

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



CORRECTED BHL: TO LEASE LINES

District I
PO Box 1980, Hobbs, NM 88241-1980

District II
811 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-102

Revised October 18, 1994

Instructions on back

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

☒ 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.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
N	23	17S	34E		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
B	26	17S	34E		228	NORTH	2780	WEST	LEA
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. <u>Shirley Houchins</u> Signature SHIRLEY HOUCHINS Printed Name ENV & REG TECHNICIAN Title 3-12-98 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