

HOBBS OCD
MAR 06 2018
RECEIVED



PHOENIX
 TECHNOLOGY SERVICES

Company: Marshall & Winston
 Well: Loco Dinero 36 State Com 003H
 Location: Lea Co., New Mexico
 Rig: Precision 590

Job Number: 62430
 Grid Corr.: -0.44
 Lat: 32.44
 Long: -103.52

Date: 02-23-18
 Calculation Method: Minimum Curvature
 Proposed Azimuth:
 RKB - MSL in feet: 25
 Tie Into: Surface

Survey Tool Type	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
							N/S (ft)	E/W (ft)	Distance (ft)	Angle (deg)			
Enter Tie-In Survey on Line 10													
FIELD COPY, NON-DEFINITIVE													
TIE IN	0			0	0	0	0	0					
Gyro	100.00	0.45	12.30	100	100.00	0.38	0.38 N	0.08 E	0.39	12.30	0.45	0.45	12.30
	200.00	0.50	270.80	100	200.00	0.77	0.77 N	0.27 W	0.82	340.82	0.74	0.05	258.50
	300.00	0.45	261.41	100	299.99	0.72	0.72 N	1.09 W	1.31	303.39	0.09	-0.05	-9.39
	400.00	0.50	271.70	100	399.99	0.68	0.68 N	1.92 W	2.03	289.39	0.10	0.05	10.29
	500.00	0.53	169.71	100	499.99	0.23	0.23 N	2.27 W	2.28	275.86	0.80	0.03	-101.99
	600.00	0.25	358.62	100	599.99	0.00	0.00 S	2.19 W	2.19	269.90	0.78	-0.28	188.91
	700.00	0.34	15.92	100	699.99	0.50	0.50 N	2.12 W	2.18	283.27	0.13	0.09	-342.70
	800.00	0.23	287.80	100	799.98	0.85	0.85 N	2.23 W	2.38	290.80	0.40	-0.11	271.88
	900.00	0.23	1.66	100	899.98	1.11	1.11 N	2.41 W	2.66	294.67	0.28	0.00	-286.14
	1000.00	0.34	17.93	100	999.98	1.59	1.59 N	2.32 W	2.81	304.49	0.14	0.11	16.27
	1100.00	0.13	246.43	100	1099.98	1.83	1.83 N	2.33 W	2.96	308.13	0.44	-0.21	228.50
	1200.00	0.13	335.71	100	1199.98	1.89	1.89 N	2.48 W	3.12	307.26	0.18	0.00	89.28
	1300.00	0.21	169.84	100	1299.98	1.81	1.81 N	2.49 W	3.08	305.96	0.34	0.08	-165.87
	1400.00	0.31	333.48	100	1399.98	1.87	1.87 N	2.58 W	3.19	305.93	0.51	0.10	163.64
	1500.00	0.18	15.01	100	1499.98	2.26	2.26 N	2.66 W	3.49	310.39	0.21	-0.13	-318.47
	1600.00	0.39	289.75	100	1599.98	2.53	2.53 N	2.94 W	3.88	310.71	0.42	0.21	274.74
	1700.00	0.39	276.93	100	1699.98	2.69	2.69 N	3.60 W	4.49	306.74	0.09	0.00	-12.82
	1800.00	0.52	244.71	100	1799.97	2.53	2.53 N	4.35 W	5.03	300.24	0.28	0.13	-32.22
	1900.00	0.79	242.86	100	1899.97	2.03	2.03 N	5.37 W	5.74	290.67	0.27	0.27	-1.85
	2000.00	0.39	198.82	100	1999.96	1.39	1.39 N	6.10 W	6.25	282.84	0.58	-0.40	-44.04
	2100.00	0.64	104.95	100	2099.96	0.92	0.92 N	5.67 W	5.74	279.26	0.77	0.25	-93.87
	2200.00	0.71	95.91	100	2199.95	0.72	0.72 N	4.51 W	4.57	279.02	0.13	0.07	-9.04
	2300.00	0.70	142.94	100	2299.95	0.16	0.16 N	3.52 W	3.53	272.67	0.56	-0.01	47.03
	2400.00	0.91	149.13	100	2399.94	-1.00	1.00 S	2.75 W	2.93	249.92	0.23	0.21	6.19
	2500.00	0.97	147.65	100	2499.92	-2.40	2.40 S	1.89 W	3.06	218.19	0.06	0.06	-1.48
	2600.00	1.23	123.13	100	2599.90	-3.70	3.70 S	0.54 W	3.74	188.26	0.53	0.26	-24.52
	2700.00	1.40	187.50	100	2699.88	-5.50	5.50 S	0.20 E	5.50	177.90	1.41	0.17	64.37
	2800.00	1.36	164.85	100	2799.85	-7.86	7.86 S	0.35 E	7.87	177.43	0.54	-0.04	-22.65
	2900.00	1.76	162.82	100	2899.82	-10.47	10.47 S	1.12 E	10.53	173.91	0.40	0.40	-2.03
	3000.00	2.23	138.66	100	2999.76	-13.40	13.40 S	2.86 E	13.70	167.97	0.95	0.47	-24.16
	3100.00	2.77	115.50	100	3099.66	-15.90	15.90 S	6.32 E	17.11	158.32	1.13	0.54	-23.16
	3200.00	3.08	107.80	100	3199.53	-17.76	17.76 S	11.06 E	20.92	148.09	0.50	0.31	-7.70

30-025-44211



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 Well: Loco Dinero 36 State Com 003H
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 Rig: Precision 590

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							N/S (ft)	E/W (ft)	Distance (ft)	Angle (deg)			
	3300.00	3.21	94.23	100	3299.39	-18.79	18.79 S	16.41 E	24.95	138.87	0.75	0.13	-13.57
	3400.00	3.61	88.75	100	3399.21	-18.93	18.93 S	22.35 E	29.29	130.26	0.52	0.40	-5.48
	3500.00	3.61	66.04	100	3499.02	-17.58	17.58 S	28.37 E	33.38	121.78	1.42	0.00	-22.71
	3600.00	3.70	69.38	100	3598.81	-15.16	15.16 S	34.27 E	37.48	113.87	0.23	0.09	3.34
	3700.00	3.94	84.88	100	3698.59	-13.72	13.72 S	40.71 E	42.96	108.62	1.06	0.24	15.50
	3800.00	3.63	96.29	100	3798.38	-13.76	13.76 S	47.28 E	49.24	106.23	0.81	-0.31	11.41
	3900.00	3.66	64.82	100	3898.18	-12.75	12.75 S	53.32 E	54.82	103.45	1.98	0.03	-31.47
	4000.00	3.51	47.65	100	3997.99	-9.33	9.33 S	58.47 E	59.21	99.07	1.08	-0.15	-17.17
	4100.00	3.77	311.36	100	4097.86	-5.09	5.09 S	58.26 E	58.49	95.00	5.42	0.26	263.71
	4200.00	2.87	203.96	100	4197.77	-5.21	5.21 S	54.78 E	55.02	95.43	5.38	-0.90	-107.40
	4300.00	3.77	145.94	100	4297.62	-10.22	10.22 S	55.60 E	56.53	100.42	3.31	0.90	-58.02
	4400.00	4.38	127.35	100	4397.37	-15.26	15.26 S	60.48 E	62.37	104.16	1.45	0.61	-18.59
	4500.00	4.56	103.94	100	4497.08	-18.54	18.54 S	67.37 E	69.88	105.38	1.82	0.18	-23.41
	4600.00	4.69	82.62	100	4596.76	-18.97	18.97 S	75.29 E	77.64	104.14	1.71	0.13	-21.32
	4700.00	4.90	61.41	100	4696.42	-16.40	16.40 S	83.09 E	84.69	101.16	1.77	0.21	-21.21
	4730.00	5.03	189.29	30	4726.36	-17.09	17.09 S	84.01 E	85.73	101.50	29.73	0.43	426.27

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

Form C-102
August 1, 2011
Permit 244866

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number 30-025-44211	2. Pool Code 97929	3. Pool Name WC-025 G-06 S213326D;BONE SPRING
4. Property Code 39736	5. Property Name LOCO DINERO 36 STATE COM	6. Well No. 003H
7. OGRID No. 14187	8. Operator Name MARSHALL & WINSTON INC	9. Elevation 3649

10. Surface Location

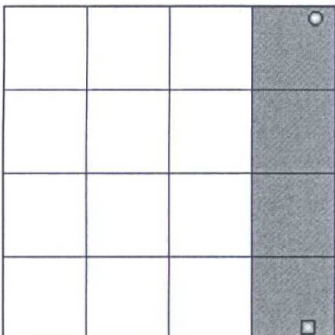
UL - Lot A	Section 36	Township 21S	Range 33E	Lot Idn A	Feet From 175	N/S Line N	Feet From 330	E/W Line E	County Lea
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11. Bottom Hole Location If Different From Surface

UL - Lot P	Section 36	Township 21S	Range 33E	Lot Idn P	Feet From 210	N/S Line S	Feet From 450	E/W Line E	County Lea
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12. Dedicated Acres 160.00	13. Joint or Infill	14. Consolidation Code Communitization	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

	OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location(s) or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i> E-Signed By: Sherry Roberts Title: Operations Secretary Date: 11/17/2017 SURVEYOR CERTIFICATION <i>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.</i> Surveyed By: RON EIDSON Date of Survey: 10/3/2017 Certificate Number: 3239
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SURVEY CERTIFICATION FORM

3610 Elkins Road Midland, TX 79705 t:432-684-0057 f: 432-686-7964



Company: Marshall & Winston

Job #: 62430

Well Name: Loco Dinero 36 State Com 003H

County/State: Lea Co., New Mexico

Survey Instrument Type: North Seek Rate Gyro

API # 30-025-44211

TIE-IN DATA

Measure Depth (ft)	Vertical Depth (ft)	Inclination (°)	Azimuth (°)	N-S Coordinates	E-W Coordinates	Data Source
0	0	0	0	0	0	Surface

First Survey

Date	Depth (ft)	Inclination (°)	Azimuth (°)
2018-02-23	0	0	0

Last Survey

Date	Depth (ft)	Inclination (°)	Azimuth (°)
2018-02-23	4730	5.03	189.29

Projected TD Survey

Date	Depth (ft)	Inclination (°)	Azimuth (°)
0	0	0	0

Grid Correction
-0.44

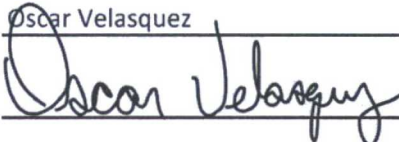
Gyro Operator: Phoenix Technology Services USA Ltd.

Gyro Supervisor: Angel Guebara

To the best of my knowledge I certify this survey data to be correct and true

Date: 2018-02-24

Print Name: Oscar Velasquez

Signature: 



PHOENIX

TECHNOLOGY SERVICES USA INC.

Celebrating 20 Years of Focused Solutions

3610 Elkins Road, Midland, Texas 79705 · T. 432.684.0057 F. 432.686.7964 www.phxtech.com

February 26, 2018

Oil Conservation Division
State of New Mexico
1625 N. French Drive
District 1 - Hobbs
Hobbs, New Mexico 88240

HOBBS OCD
MAR 05 2018
RECEIVED

Dear District 1 - Hobbs

Re: Marshall & Winston, Inc.
Loco Dinero 36 State Com 003H
Lea County, NM
API #30-025-44211
Job No. 62430

Enclosed please find the Survey Data Certification, and the original Plat and one copy of the Survey Report performed on the above referenced Well by Phoenix Technology Services, Inc. (P-5 No. 664171). Other information required by your office is as follows:

Name & Title of Surveyor	Drain Hole Number	Surveyed Depths		Dates Performed		Type of Survey
		From	To	Start	End	
Oscar Velasquez	003H	0	4,730	2/23/18	2/23/18	Gyro

A certified plat on which the bottom hole location is oriented both to the surface location and to the lease lines (or unit lines in case of pooling) is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Best Regards,

Brittany Carley

Brittany Carley
Operations Administrator



Job Number: 5482
Company: OXY EOR
Lease/Well: North Hobbs Unit
Location:
Rig Name: Trinidad 435
State/County: New Mexico/ Lea
Country: United States
API Number: 30-025-43580

25 - 43580

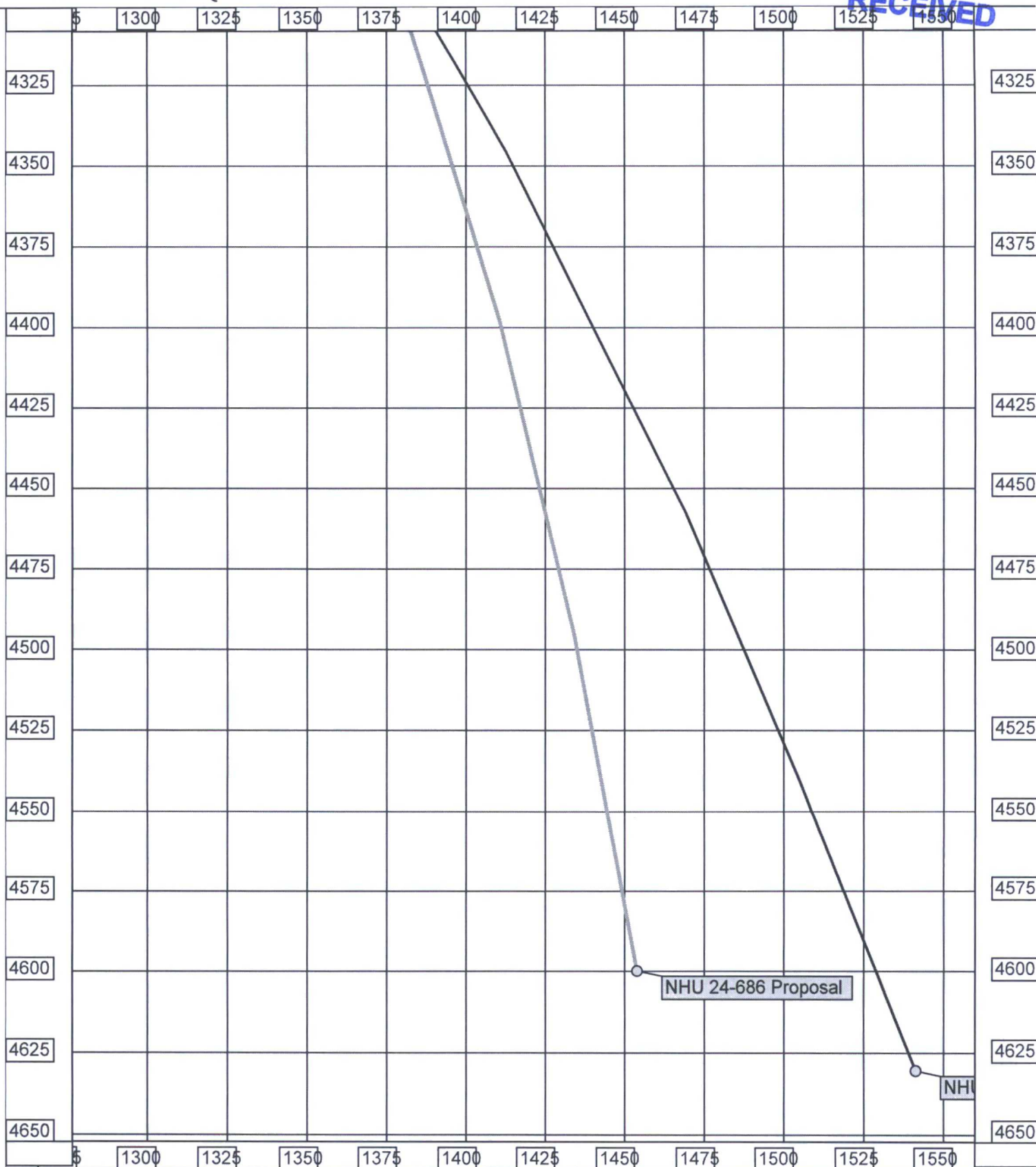
Elevation (To MSL): 3670.99 ft
RKB: 17.50 ft
Projection System: US State Plane 1927 (Exact solution)
Projection Group: New Mexico East 3001
Projection Datum: CLARKE 1866
Magnetic Declination: 6.65
Grid Convergence: 0.60818 E
Date: Tuesday, December 05, 2017

HOBBS OCD

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RECEIVED

True Vertical Depth



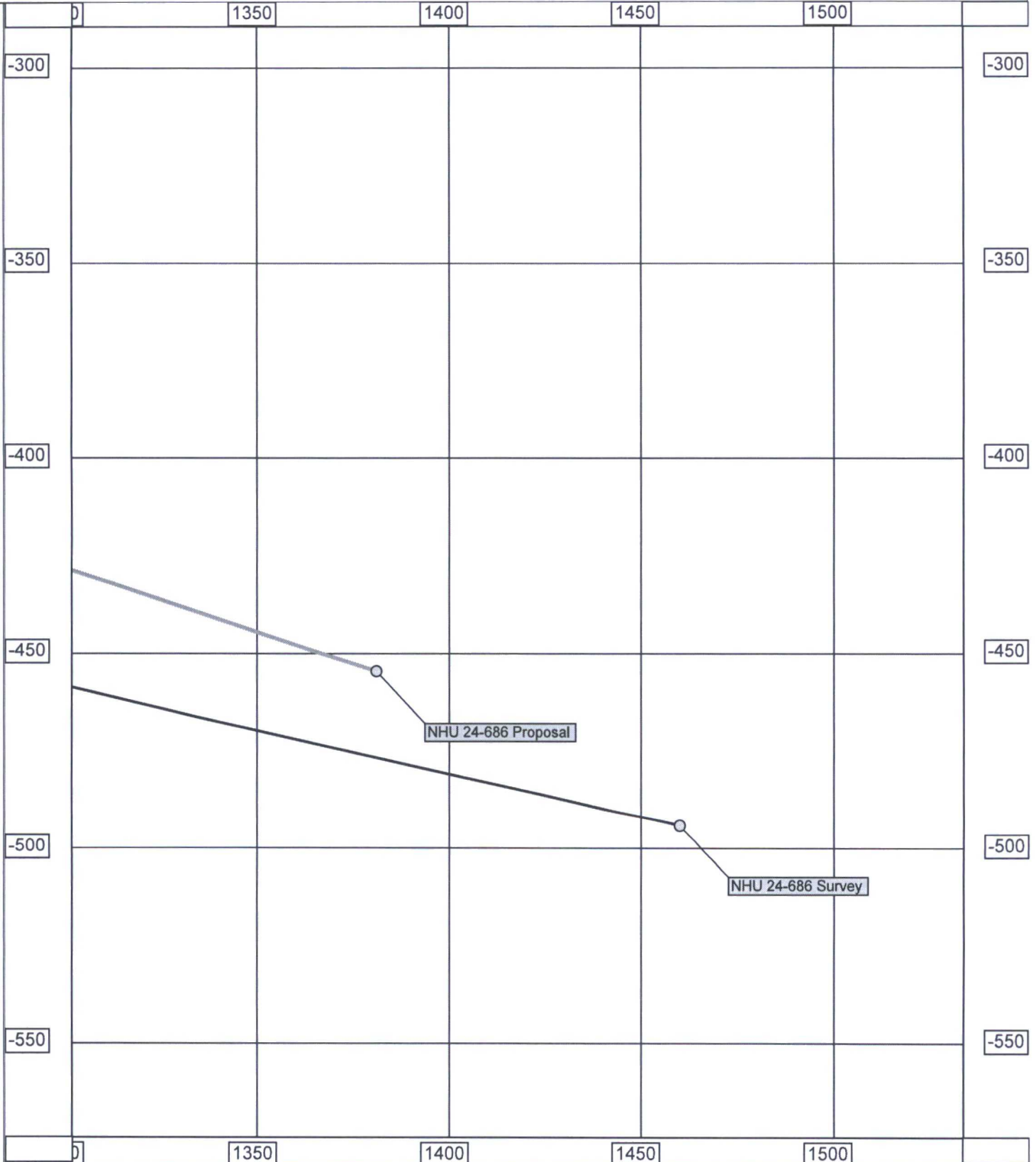
Vertical Section (25 Ft/Div) VSP: 108.22°



Job Number: 5482
Company: OXY EOR
Lease/Well: North Hobbs Unit
Location:
Rig Name: Trinidad 435
State/Country: New Mexico/ Lea
Country: United States
API Number: 30-025-43580

Elevation (To MSL): 3670.99 ft
RKB: 17.50 ft
Projection System: US State Plane 1927 (Exact solution)
Projection Group: New Mexico East 3001
Projection Datum: CLARKE 1866
Magnetic Declination: 6.85
Grid Convergence: 0.60818 E
Date: Tuesday, December 05, 2017

South - North



West - East