

Well Name: FORTY NINER RIDGE UNIT	Well Location: T23S / R30E / SEC 22 / SWSE / 32.2833078 / -103.8667552	County or Parish/State: EDDY / NM
Well Number: 114H	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMNM0531277	Unit or CA Name: FORTY NINER RIDGE UNIT	Unit or CA Number: NMNM70951X
US Well Number: 3001547452	Well Status: Drilling Well	Operator: MEWBOURNE OIL COMPANY

Notice of Intent

Sundry ID: 2632653

Type of Submission: Notice of Intent	Type of Action: Other
Date Sundry Submitted: 09/03/2021	Time Sundry Submitted: 01:25
Date proposed operation will begin: 09/03/2021	

Procedure Description: Mewbourne Oil Company request approval to make the following changes to the approved APD: - Change BHL from 330' FNL & 1650' FEL Sec 15, T23S, R30E, to 20' FNL & 1870' FEL Sec 15, T23S, R30E. - Change casing and cement design as detailed in the attachment - Change BOP from 10M to 5M Please contact Mike Loy with any questions.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

- Forty_Niner_Ridge_Unit_114H_Signed_C102_20210903132412.pdf
- Forty_Niner_Ridge_Unit_114H_Csg_Assumptions_20210903132412.pdf
- Forty_Niner_Ridge_Unit_114H_Dir_Plot_20210903132412.pdf
- Forty_Niner_Ridge_Unit_114H_Dir_Plan_20210903132411.pdf
- Forty_Niner_Ridge_Unit_114H_5M_BOPE_Schematic_20210903132350.pdf
- Forty_Niner_Ridge_Unit_114H_5M_Mutli_Bowl_WH_20210903132350.pdf
- Forty_Niner_Ridge_Unit_114H_5M_BOPE_Choke_Diagram_20210903132338.pdf

Received by OCD: 9/15/2021 11:51:37 AM

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US Well Number: 3001547452	Well Status: Drilling Well	Operator: MEWBOURNE OIL COMPANY

Conditions of Approval

Specialist Review

FORTY_NINER_RIDGE_UNIT_114H_Drilling_Sundry_2632653_COA_OTA_20210913105448.pdf

Operator Certification

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a submission of Form 3160-5 or a Sundry Notice.

Operator Electronic Signature: BRADLEY BISHOP

Signed on: SEP 03, 2021 01:24 PM

Name: MEWBOURNE OIL COMPANY

Title: Regulatory

Street Address: PO Box 5270

City: Hobbs

State: NM

Phone: (575) 393-5905

Email address: bbishop@mewbourne.com

Field Representative

Representative Name: Mike Loy

Street Address:

City: Hobbs

State: NM

Zip: 88240

Phone: (575)263-4941

Email address: mloy@mewbourne.com

BLM Point of Contact

BLM POC Name: AJIBOLA OLABODE

BLM POC Title: Engineer

BLM POC Phone: 5752342231

BLM POC Email Address: OAJIBOLAEIT@BLM.GOV

Disposition: Approved

Disposition Date: 09/13/2021

Signature: Olabode Thomas Ajibola

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 Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

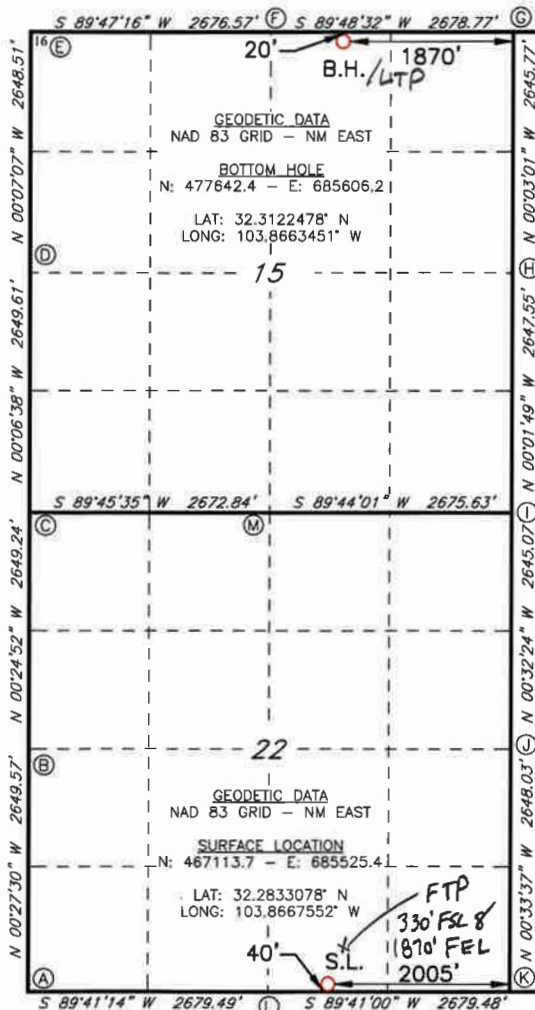
Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-47452		² Pool Code 98358		³ Pool Name WC23S30E22; Wolfcamp GAS	
⁴ Property Code 35090		⁵ Property Name FORTY NINER RIDGE UNIT			⁶ Well Number 114H
⁷ OGRID NO. 14744		⁸ Operator Name MEWBOURNE OIL COMPANY			⁹ Elevation 3269'
¹⁰ Surface Location					
UL or lot no. 0	Section 22	Township 23S	Range 30E	Lot Idn 40	Feet from the SOUTH 2005
East/West line EAST		County EDDY			
¹¹ Bottom Hole Location If Different From Surface					
UL or lot no. B	Section 15	Township 23S	Range 30E	Lot Idn 20	Feet from the NORTH 1870
East/West line EAST		County EDDY			
¹² Dedicated Acres 640		¹³ Joint or Infill		¹⁴ Consolidation Code	
¹⁵ Order No.					

No allowable will be assigned to this completion until all interest 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, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location 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.

Signature: *Michael Loy* Date: 9-3-21
Printed Name: Michael Loy
E-mail Address: mloy@mewbourne.com

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.

1-08-2019

Date of Survey

Signature and Seal of Professional Surveyor

19680

Certificate Number

REV: BH MOVE - 6/4/2021

RRC-Job No: LS19010034R

Mewbourne Oil Company

Eddy County, New Mexico NAD 83

Forty Niner Ridge Unit #114H

Sec 22, T23S, R30E

SHL: 40' FSL & 2005' FEL

BHL: 20' FNL & 1870' FEL

Plan: Design #1

Standard Planning Report

04 June, 2021

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Forty Niner Ridge Unit #114H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3297.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3297.0usft (Original Well Elev)
Site:	Forty Niner Ridge Unit #114H	North Reference:	Grid
Well:	Sec 22, T23S, R30E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 20' FNL & 1870' FEL		
Design:	Design #1		

Project	Eddy County, New Mexico NAD 83		
Map System:	US State Plane 1983	System Datum:	Ground Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Forty Niner Ridge Unit #114H		
Site Position:		Northing:	467,113.70 usft
From:	Map	Easting:	685,525.40 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32.2833077
		Longitude:	-103.8667550

Well	Sec 22, T23S, R30E		
Well Position	+N/-S	0.0 usft	Northing: 467,113.70 usft
	+E/-W	0.0 usft	Easting: 685,525.40 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	3,297.0 usft
Grid Convergence:	0.25 °	Ground Level:	3,269.0 usft

Wellbore	BHL: 20' FNL & 1870' FEL				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/31/2014	7.29	60.10	48,241.90608652

Design	Design #1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	0.44

Plan Survey Tool Program	Date 6/4/2021			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	21,409.2	Design #1 (BHL: 20' FNL & 1870')	

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
425.0	0.00	0.00	425.0	0.0	0.0	0.00	0.00	0.00	0.00	
449.3	0.49	110.05	449.3	0.0	0.1	2.00	2.00	0.00	110.05	
10,500.1	0.49	110.05	10,499.7	-29.3	80.3	0.00	0.00	0.00	0.00	
10,524.4	0.00	0.00	10,524.0	-29.4	80.4	2.00	-2.00	0.00	180.00	KOP: 10' FSL & 1870'
11,426.7	90.23	0.00	11,097.0	545.9	80.4	10.00	10.00	0.00	0.00	
21,409.2	90.23	0.00	11,057.0	10,528.3	80.4	0.00	0.00	0.00	0.00	BHL: 20' FNL & 1870'

Planning Report

Database: Hobbs
Company: Mewbourne Oil Company
Project: Eddy County, New Mexico NAD 83
Site: Forty Niner Ridge Unit #114H
Well: Sec 22, T23S, R30E
Wellbore: BHL: 20' FNL & 1870' FEL
Design: Design #1

Local Co-ordinate Reference: Site Forty Niner Ridge Unit #114H
TVD Reference: WELL @ 3297.0usft (Original Well Elev)
MD Reference: WELL @ 3297.0usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
SHL: 40' FSL & 2005' FEL									
100.0	0.00	0.00	100.0	0.0	0.0	0.0	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
300.0	0.00	0.00	300.0	0.0	0.0	0.0	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
425.0	0.00	0.00	425.0	0.0	0.0	0.0	0.00	0.00	0.00
449.3	0.49	110.05	449.3	0.0	0.1	0.0	2.00	2.00	0.00
500.0	0.49	110.05	500.0	-0.2	0.5	-0.2	0.00	0.00	0.00
600.0	0.49	110.05	600.0	-0.5	1.3	-0.5	0.00	0.00	0.00
700.0	0.49	110.05	700.0	-0.8	2.1	-0.7	0.00	0.00	0.00
800.0	0.49	110.05	800.0	-1.1	2.9	-1.0	0.00	0.00	0.00
900.0	0.49	110.05	900.0	-1.3	3.7	-1.3	0.00	0.00	0.00
1,000.0	0.49	110.05	1,000.0	-1.6	4.5	-1.6	0.00	0.00	0.00
1,100.0	0.49	110.05	1,100.0	-1.9	5.3	-1.9	0.00	0.00	0.00
1,200.0	0.49	110.05	1,200.0	-2.2	6.1	-2.2	0.00	0.00	0.00
1,300.0	0.49	110.05	1,300.0	-2.5	6.9	-2.5	0.00	0.00	0.00
1,400.0	0.49	110.05	1,400.0	-2.8	7.7	-2.7	0.00	0.00	0.00
1,500.0	0.49	110.05	1,500.0	-3.1	8.5	-3.0	0.00	0.00	0.00
1,600.0	0.49	110.05	1,600.0	-3.4	9.3	-3.3	0.00	0.00	0.00
1,700.0	0.49	110.05	1,700.0	-3.7	10.1	-3.6	0.00	0.00	0.00
1,800.0	0.49	110.05	1,800.0	-4.0	10.9	-3.9	0.00	0.00	0.00
1,900.0	0.49	110.05	1,899.9	-4.3	11.7	-4.2	0.00	0.00	0.00
2,000.0	0.49	110.05	1,999.9	-4.6	12.5	-4.5	0.00	0.00	0.00
2,100.0	0.49	110.05	2,099.9	-4.8	13.3	-4.7	0.00	0.00	0.00
2,200.0	0.49	110.05	2,199.9	-5.1	14.1	-5.0	0.00	0.00	0.00
2,300.0	0.49	110.05	2,299.9	-5.4	14.9	-5.3	0.00	0.00	0.00
2,400.0	0.49	110.05	2,399.9	-5.7	15.7	-5.6	0.00	0.00	0.00
2,500.0	0.49	110.05	2,499.9	-6.0	16.5	-5.9	0.00	0.00	0.00
2,600.0	0.49	110.05	2,599.9	-6.3	17.3	-6.2	0.00	0.00	0.00
2,700.0	0.49	110.05	2,699.9	-6.6	18.1	-6.5	0.00	0.00	0.00
2,800.0	0.49	110.05	2,799.9	-6.9	18.9	-6.7	0.00	0.00	0.00
2,900.0	0.49	110.05	2,899.9	-7.2	19.7	-7.0	0.00	0.00	0.00
3,000.0	0.49	110.05	2,999.9	-7.5	20.5	-7.3	0.00	0.00	0.00
3,100.0	0.49	110.05	3,099.9	-7.8	21.3	-7.6	0.00	0.00	0.00
3,200.0	0.49	110.05	3,199.9	-8.0	22.1	-7.9	0.00	0.00	0.00
3,300.0	0.49	110.05	3,299.9	-8.3	22.8	-8.2	0.00	0.00	0.00
3,400.0	0.49	110.05	3,399.9	-8.6	23.6	-8.5	0.00	0.00	0.00
3,500.0	0.49	110.05	3,499.9	-8.9	24.4	-8.7	0.00	0.00	0.00
3,600.0	0.49	110.05	3,599.9	-9.2	25.2	-9.0	0.00	0.00	0.00
3,700.0	0.49	110.05	3,699.9	-9.5	26.0	-9.3	0.00	0.00	0.00
3,800.0	0.49	110.05	3,799.9	-9.8	26.8	-9.6	0.00	0.00	0.00
3,900.0	0.49	110.05	3,899.9	-10.1	27.6	-9.9	0.00	0.00	0.00
4,000.0	0.49	110.05	3,999.9	-10.4	28.4	-10.2	0.00	0.00	0.00
4,100.0	0.49	110.05	4,099.9	-10.7	29.2	-10.4	0.00	0.00	0.00
4,200.0	0.49	110.05	4,199.9	-11.0	30.0	-10.7	0.00	0.00	0.00
4,300.0	0.49	110.05	4,299.9	-11.3	30.8	-11.0	0.00	0.00	0.00
4,400.0	0.49	110.05	4,399.9	-11.5	31.6	-11.3	0.00	0.00	0.00
4,500.0	0.49	110.05	4,499.9	-11.8	32.4	-11.6	0.00	0.00	0.00
4,600.0	0.49	110.05	4,599.8	-12.1	33.2	-11.9	0.00	0.00	0.00
4,700.0	0.49	110.05	4,699.8	-12.4	34.0	-12.2	0.00	0.00	0.00
4,800.0	0.49	110.05	4,799.8	-12.7	34.8	-12.4	0.00	0.00	0.00
4,900.0	0.49	110.05	4,899.8	-13.0	35.6	-12.7	0.00	0.00	0.00
5,000.0	0.49	110.05	4,999.8	-13.3	36.4	-13.0	0.00	0.00	0.00

Planning Report

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Wellbore:	BHL: 20' FNL & 1870' FEL		
Design:	Design #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
5,100.0	0.49	110.05	5,099.8	-13.6	37.2	-13.3	0.00	0.00	0.00	
5,200.0	0.49	110.05	5,199.8	-13.9	38.0	-13.6	0.00	0.00	0.00	
5,300.0	0.49	110.05	5,299.8	-14.2	38.8	-13.9	0.00	0.00	0.00	
5,400.0	0.49	110.05	5,399.8	-14.5	39.6	-14.2	0.00	0.00	0.00	
5,500.0	0.49	110.05	5,499.8	-14.8	40.4	-14.4	0.00	0.00	0.00	
5,600.0	0.49	110.05	5,599.8	-15.0	41.2	-14.7	0.00	0.00	0.00	
5,700.0	0.49	110.05	5,699.8	-15.3	42.0	-15.0	0.00	0.00	0.00	
5,800.0	0.49	110.05	5,799.8	-15.6	42.8	-15.3	0.00	0.00	0.00	
5,900.0	0.49	110.05	5,899.8	-15.9	43.6	-15.6	0.00	0.00	0.00	
6,000.0	0.49	110.05	5,999.8	-16.2	44.4	-15.9	0.00	0.00	0.00	
6,100.0	0.49	110.05	6,099.8	-16.5	45.2	-16.2	0.00	0.00	0.00	
6,200.0	0.49	110.05	6,199.8	-16.8	46.0	-16.4	0.00	0.00	0.00	
6,300.0	0.49	110.05	6,299.8	-17.1	46.8	-16.7	0.00	0.00	0.00	
6,400.0	0.49	110.05	6,399.8	-17.4	47.6	-17.0	0.00	0.00	0.00	
6,500.0	0.49	110.05	6,499.8	-17.7	48.4	-17.3	0.00	0.00	0.00	
6,600.0	0.49	110.05	6,599.8	-18.0	49.2	-17.6	0.00	0.00	0.00	
6,700.0	0.49	110.05	6,699.8	-18.2	50.0	-17.9	0.00	0.00	0.00	
6,800.0	0.49	110.05	6,799.8	-18.5	50.8	-18.1	0.00	0.00	0.00	
6,900.0	0.49	110.05	6,899.8	-18.8	51.6	-18.4	0.00	0.00	0.00	
7,000.0	0.49	110.05	6,999.8	-19.1	52.4	-18.7	0.00	0.00	0.00	
7,100.0	0.49	110.05	7,099.8	-19.4	53.2	-19.0	0.00	0.00	0.00	
7,200.0	0.49	110.05	7,199.8	-19.7	54.0	-19.3	0.00	0.00	0.00	
7,300.0	0.49	110.05	7,299.8	-20.0	54.8	-19.6	0.00	0.00	0.00	
7,400.0	0.49	110.05	7,399.7	-20.3	55.6	-19.9	0.00	0.00	0.00	
7,500.0	0.49	110.05	7,499.7	-20.6	56.4	-20.1	0.00	0.00	0.00	
7,600.0	0.49	110.05	7,599.7	-20.9	57.2	-20.4	0.00	0.00	0.00	
7,700.0	0.49	110.05	7,699.7	-21.2	58.0	-20.7	0.00	0.00	0.00	
7,800.0	0.49	110.05	7,799.7	-21.5	58.8	-21.0	0.00	0.00	0.00	
7,900.0	0.49	110.05	7,899.7	-21.7	59.6	-21.3	0.00	0.00	0.00	
8,000.0	0.49	110.05	7,999.7	-22.0	60.4	-21.6	0.00	0.00	0.00	
8,100.0	0.49	110.05	8,099.7	-22.3	61.2	-21.9	0.00	0.00	0.00	
8,200.0	0.49	110.05	8,199.7	-22.6	62.0	-22.1	0.00	0.00	0.00	
8,300.0	0.49	110.05	8,299.7	-22.9	62.8	-22.4	0.00	0.00	0.00	
8,400.0	0.49	110.05	8,399.7	-23.2	63.6	-22.7	0.00	0.00	0.00	
8,500.0	0.49	110.05	8,499.7	-23.5	64.4	-23.0	0.00	0.00	0.00	
8,600.0	0.49	110.05	8,599.7	-23.8	65.1	-23.3	0.00	0.00	0.00	
8,700.0	0.49	110.05	8,699.7	-24.1	65.9	-23.6	0.00	0.00	0.00	
8,800.0	0.49	110.05	8,799.7	-24.4	66.7	-23.9	0.00	0.00	0.00	
8,900.0	0.49	110.05	8,899.7	-24.7	67.5	-24.1	0.00	0.00	0.00	
9,000.0	0.49	110.05	8,999.7	-24.9	68.3	-24.4	0.00	0.00	0.00	
9,100.0	0.49	110.05	9,099.7	-25.2	69.1	-24.7	0.00	0.00	0.00	
9,200.0	0.49	110.05	9,199.7	-25.5	69.9	-25.0	0.00	0.00	0.00	
9,300.0	0.49	110.05	9,299.7	-25.8	70.7	-25.3	0.00	0.00	0.00	
9,400.0	0.49	110.05	9,399.7	-26.1	71.5	-25.6	0.00	0.00	0.00	
9,500.0	0.49	110.05	9,499.7	-26.4	72.3	-25.9	0.00	0.00	0.00	
9,600.0	0.49	110.05	9,599.7	-26.7	73.1	-26.1	0.00	0.00	0.00	
9,700.0	0.49	110.05	9,699.7	-27.0	73.9	-26.4	0.00	0.00	0.00	
9,800.0	0.49	110.05	9,799.7	-27.3	74.7	-26.7	0.00	0.00	0.00	
9,900.0	0.49	110.05	9,899.7	-27.6	75.5	-27.0	0.00	0.00	0.00	
10,000.0	0.49	110.05	9,999.7	-27.9	76.3	-27.3	0.00	0.00	0.00	
10,100.0	0.49	110.05	10,099.7	-28.2	77.1	-27.6	0.00	0.00	0.00	
10,200.0	0.49	110.05	10,199.6	-28.4	77.9	-27.8	0.00	0.00	0.00	
10,300.0	0.49	110.05	10,299.6	-28.7	78.7	-28.1	0.00	0.00	0.00	
10,400.0	0.49	110.05	10,399.6	-29.0	79.5	-28.4	0.00	0.00	0.00	

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Forty Niner Ridge Unit #114H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3297.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3297.0usft (Original Well Elev)
Site:	Forty Niner Ridge Unit #114H	North Reference:	Grid
Well:	Sec 22, T23S, R30E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 20' FNL & 1870' FEL		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,500.1	0.49	110.05	10,499.7	-29.3	80.3	-28.7	0.00	0.00	0.00
10,524.4	0.00	0.00	10,524.0	-29.4	80.4	-28.7	2.00	-2.00	0.00
KOP: 10' FSL & 1870' FEL									
10,550.0	2.56	0.00	10,549.6	-28.8	80.4	-28.2	10.00	10.00	0.00
10,600.0	7.56	0.00	10,599.4	-24.4	80.4	-23.8	10.00	10.00	0.00
10,650.0	12.56	0.00	10,648.6	-15.6	80.4	-15.0	10.00	10.00	0.00
10,700.0	17.56	0.00	10,696.9	-2.7	80.4	-2.0	10.00	10.00	0.00
10,750.0	22.56	0.00	10,743.9	14.5	80.4	15.1	10.00	10.00	0.00
10,800.0	27.56	0.00	10,789.1	35.7	80.4	36.3	10.00	10.00	0.00
10,850.0	32.56	0.00	10,832.4	60.7	80.4	61.3	10.00	10.00	0.00
10,900.0	37.56	0.00	10,873.3	89.4	80.4	90.0	10.00	10.00	0.00
10,950.0	42.56	0.00	10,911.6	121.6	80.4	122.2	10.00	10.00	0.00
11,000.0	47.56	0.00	10,946.9	157.0	80.4	157.6	10.00	10.00	0.00
11,050.0	52.56	0.00	10,979.0	195.3	80.4	195.9	10.00	10.00	0.00
11,100.0	57.56	0.00	11,007.6	236.3	80.4	236.9	10.00	10.00	0.00
11,150.0	62.56	0.00	11,032.5	279.6	80.4	280.2	10.00	10.00	0.00
11,161.7	63.73	0.00	11,037.8	290.0	80.4	290.6	10.00	10.00	0.00
FTP: 330' FSL & 1870' FEL									
11,200.0	67.56	0.00	11,053.6	324.9	80.4	325.5	10.00	10.00	0.00
11,250.0	72.56	0.00	11,070.7	371.9	80.4	372.5	10.00	10.00	0.00
11,300.0	77.56	0.00	11,083.5	420.2	80.4	420.8	10.00	10.00	0.00
11,350.0	82.56	0.00	11,092.2	469.4	80.4	470.0	10.00	10.00	0.00
11,400.0	87.56	0.00	11,096.5	519.2	80.4	519.8	10.00	10.00	0.00
11,426.7	90.23	0.00	11,097.0	545.9	80.4	546.5	10.00	10.00	0.00
LP: 586' FSL & 1870' FEL									
11,500.0	90.23	0.00	11,096.7	619.2	80.4	619.8	0.00	0.00	0.00
11,600.0	90.23	0.00	11,096.3	719.2	80.4	719.8	0.00	0.00	0.00
11,700.0	90.23	0.00	11,095.9	819.2	80.4	819.8	0.00	0.00	0.00
11,800.0	90.23	0.00	11,095.5	919.2	80.4	919.8	0.00	0.00	0.00
11,900.0	90.23	0.00	11,095.1	1,019.2	80.4	1,019.8	0.00	0.00	0.00
12,000.0	90.23	0.00	11,094.7	1,119.2	80.4	1,119.8	0.00	0.00	0.00
12,100.0	90.23	0.00	11,094.3	1,219.2	80.4	1,219.8	0.00	0.00	0.00
12,200.0	90.23	0.00	11,093.9	1,319.2	80.4	1,319.8	0.00	0.00	0.00
12,300.0	90.23	0.00	11,093.5	1,419.2	80.4	1,419.8	0.00	0.00	0.00
12,400.0	90.23	0.00	11,093.1	1,519.2	80.4	1,519.8	0.00	0.00	0.00
12,500.0	90.23	0.00	11,092.7	1,619.2	80.4	1,619.8	0.00	0.00	0.00
12,600.0	90.23	0.00	11,092.3	1,719.2	80.4	1,719.8	0.00	0.00	0.00
12,700.0	90.23	0.00	11,091.9	1,819.2	80.4	1,819.7	0.00	0.00	0.00
12,800.0	90.23	0.00	11,091.5	1,919.2	80.4	1,919.7	0.00	0.00	0.00
12,900.0	90.23	0.00	11,091.1	2,019.2	80.4	2,019.7	0.00	0.00	0.00
13,000.0	90.23	0.00	11,090.7	2,119.2	80.4	2,119.7	0.00	0.00	0.00
13,100.0	90.23	0.00	11,090.3	2,219.2	80.4	2,219.7	0.00	0.00	0.00
13,200.0	90.23	0.00	11,089.9	2,319.2	80.4	2,319.7	0.00	0.00	0.00
13,300.0	90.23	0.00	11,089.5	2,419.2	80.4	2,419.7	0.00	0.00	0.00
13,400.0	90.23	0.00	11,089.1	2,519.2	80.4	2,519.7	0.00	0.00	0.00
13,500.0	90.23	0.00	11,088.7	2,619.2	80.4	2,619.7	0.00	0.00	0.00
13,600.0	90.23	0.00	11,088.3	2,719.2	80.4	2,719.7	0.00	0.00	0.00
13,700.0	90.23	0.00	11,087.9	2,819.2	80.4	2,819.7	0.00	0.00	0.00
13,800.0	90.23	0.00	11,087.5	2,919.2	80.4	2,919.7	0.00	0.00	0.00
13,900.0	90.23	0.00	11,087.1	3,019.2	80.4	3,019.7	0.00	0.00	0.00
14,000.0	90.23	0.00	11,086.7	3,119.2	80.4	3,119.7	0.00	0.00	0.00
14,100.0	90.23	0.00	11,086.3	3,219.2	80.4	3,219.7	0.00	0.00	0.00
14,200.0	90.23	0.00	11,085.9	3,319.2	80.4	3,319.7	0.00	0.00	0.00

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Forty Niner Ridge Unit #114H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3297.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3297.0usft (Original Well Elev)
Site:	Forty Niner Ridge Unit #114H	North Reference:	Grid
Well:	Sec 22, T23S, R30E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 20' FNL & 1870' FEL		
Design:	Design #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
14,300.0	90.23	0.00	11,085.5	3,419.2	80.4	3,419.7	0.00	0.00	0.00
14,400.0	90.23	0.00	11,085.1	3,519.2	80.4	3,519.7	0.00	0.00	0.00
14,500.0	90.23	0.00	11,084.7	3,619.2	80.4	3,619.7	0.00	0.00	0.00
14,600.0	90.23	0.00	11,084.3	3,719.2	80.4	3,719.7	0.00	0.00	0.00
14,700.0	90.23	0.00	11,083.9	3,819.2	80.4	3,819.7	0.00	0.00	0.00
14,800.0	90.23	0.00	11,083.5	3,919.2	80.4	3,919.7	0.00	0.00	0.00
14,900.0	90.23	0.00	11,083.1	4,019.2	80.4	4,019.7	0.00	0.00	0.00
15,000.0	90.23	0.00	11,082.7	4,119.2	80.4	4,119.7	0.00	0.00	0.00
15,100.0	90.23	0.00	11,082.3	4,219.2	80.4	4,219.7	0.00	0.00	0.00
15,200.0	90.23	0.00	11,081.9	4,319.2	80.4	4,319.7	0.00	0.00	0.00
15,300.0	90.23	0.00	11,081.5	4,419.2	80.4	4,419.7	0.00	0.00	0.00
15,400.0	90.23	0.00	11,081.1	4,519.2	80.4	4,519.6	0.00	0.00	0.00
15,500.0	90.23	0.00	11,080.7	4,619.2	80.4	4,619.6	0.00	0.00	0.00
15,600.0	90.23	0.00	11,080.3	4,719.2	80.4	4,719.6	0.00	0.00	0.00
15,700.0	90.23	0.00	11,079.9	4,819.2	80.4	4,819.6	0.00	0.00	0.00
15,800.0	90.23	0.00	11,079.5	4,919.2	80.4	4,919.6	0.00	0.00	0.00
15,900.0	90.23	0.00	11,079.1	5,019.2	80.4	5,019.6	0.00	0.00	0.00
16,000.0	90.23	0.00	11,078.7	5,119.2	80.4	5,119.6	0.00	0.00	0.00
16,100.0	90.23	0.00	11,078.3	5,219.2	80.4	5,219.6	0.00	0.00	0.00
16,200.0	90.23	0.00	11,077.9	5,319.2	80.4	5,319.6	0.00	0.00	0.00
16,300.0	90.23	0.00	11,077.5	5,419.2	80.4	5,419.6	0.00	0.00	0.00
16,400.0	90.23	0.00	11,077.1	5,519.2	80.4	5,519.6	0.00	0.00	0.00
16,500.0	90.23	0.00	11,076.7	5,619.2	80.4	5,619.6	0.00	0.00	0.00
16,600.0	90.23	0.00	11,076.3	5,719.2	80.4	5,719.6	0.00	0.00	0.00
16,700.0	90.23	0.00	11,075.9	5,819.2	80.4	5,819.6	0.00	0.00	0.00
16,800.0	90.23	0.00	11,075.5	5,919.2	80.4	5,919.6	0.00	0.00	0.00
16,900.0	90.23	0.00	11,075.1	6,019.2	80.4	6,019.6	0.00	0.00	0.00
17,000.0	90.23	0.00	11,074.7	6,119.2	80.4	6,119.6	0.00	0.00	0.00
17,100.0	90.23	0.00	11,074.3	6,219.2	80.4	6,219.6	0.00	0.00	0.00
17,200.0	90.23	0.00	11,073.9	6,319.2	80.4	6,319.6	0.00	0.00	0.00
17,300.0	90.23	0.00	11,073.5	6,419.2	80.4	6,419.6	0.00	0.00	0.00
17,400.0	90.23	0.00	11,073.1	6,519.1	80.4	6,519.6	0.00	0.00	0.00
17,500.0	90.23	0.00	11,072.7	6,619.1	80.4	6,619.6	0.00	0.00	0.00
17,600.0	90.23	0.00	11,072.3	6,719.1	80.4	6,719.6	0.00	0.00	0.00
17,700.0	90.23	0.00	11,071.9	6,819.1	80.4	6,819.6	0.00	0.00	0.00
17,800.0	90.23	0.00	11,071.5	6,919.1	80.4	6,919.6	0.00	0.00	0.00
17,900.0	90.23	0.00	11,071.1	7,019.1	80.4	7,019.6	0.00	0.00	0.00
18,000.0	90.23	0.00	11,070.7	7,119.1	80.4	7,119.6	0.00	0.00	0.00
18,100.0	90.23	0.00	11,070.3	7,219.1	80.4	7,219.5	0.00	0.00	0.00
18,200.0	90.23	0.00	11,069.9	7,319.1	80.4	7,319.5	0.00	0.00	0.00
18,300.0	90.23	0.00	11,069.5	7,419.1	80.4	7,419.5	0.00	0.00	0.00
18,400.0	90.23	0.00	11,069.1	7,519.1	80.4	7,519.5	0.00	0.00	0.00
18,500.0	90.23	0.00	11,068.7	7,619.1	80.4	7,619.5	0.00	0.00	0.00
18,600.0	90.23	0.00	11,068.3	7,719.1	80.4	7,719.5	0.00	0.00	0.00
18,700.0	90.23	0.00	11,067.9	7,819.1	80.4	7,819.5	0.00	0.00	0.00
18,800.0	90.23	0.00	11,067.5	7,919.1	80.4	7,919.5	0.00	0.00	0.00
18,900.0	90.23	0.00	11,067.1	8,019.1	80.4	8,019.5	0.00	0.00	0.00
19,000.0	90.23	0.00	11,066.7	8,119.1	80.4	8,119.5	0.00	0.00	0.00
19,100.0	90.23	0.00	11,066.3	8,219.1	80.4	8,219.5	0.00	0.00	0.00
19,200.0	90.23	0.00	11,065.9	8,319.1	80.4	8,319.5	0.00	0.00	0.00
19,300.0	90.23	0.00	11,065.5	8,419.1	80.4	8,419.5	0.00	0.00	0.00
19,400.0	90.23	0.00	11,065.1	8,519.1	80.4	8,519.5	0.00	0.00	0.00
19,500.0	90.23	0.00	11,064.7	8,619.1	80.4	8,619.5	0.00	0.00	0.00
19,600.0	90.23	0.00	11,064.2	8,719.1	80.4	8,719.5	0.00	0.00	0.00

Planning Report

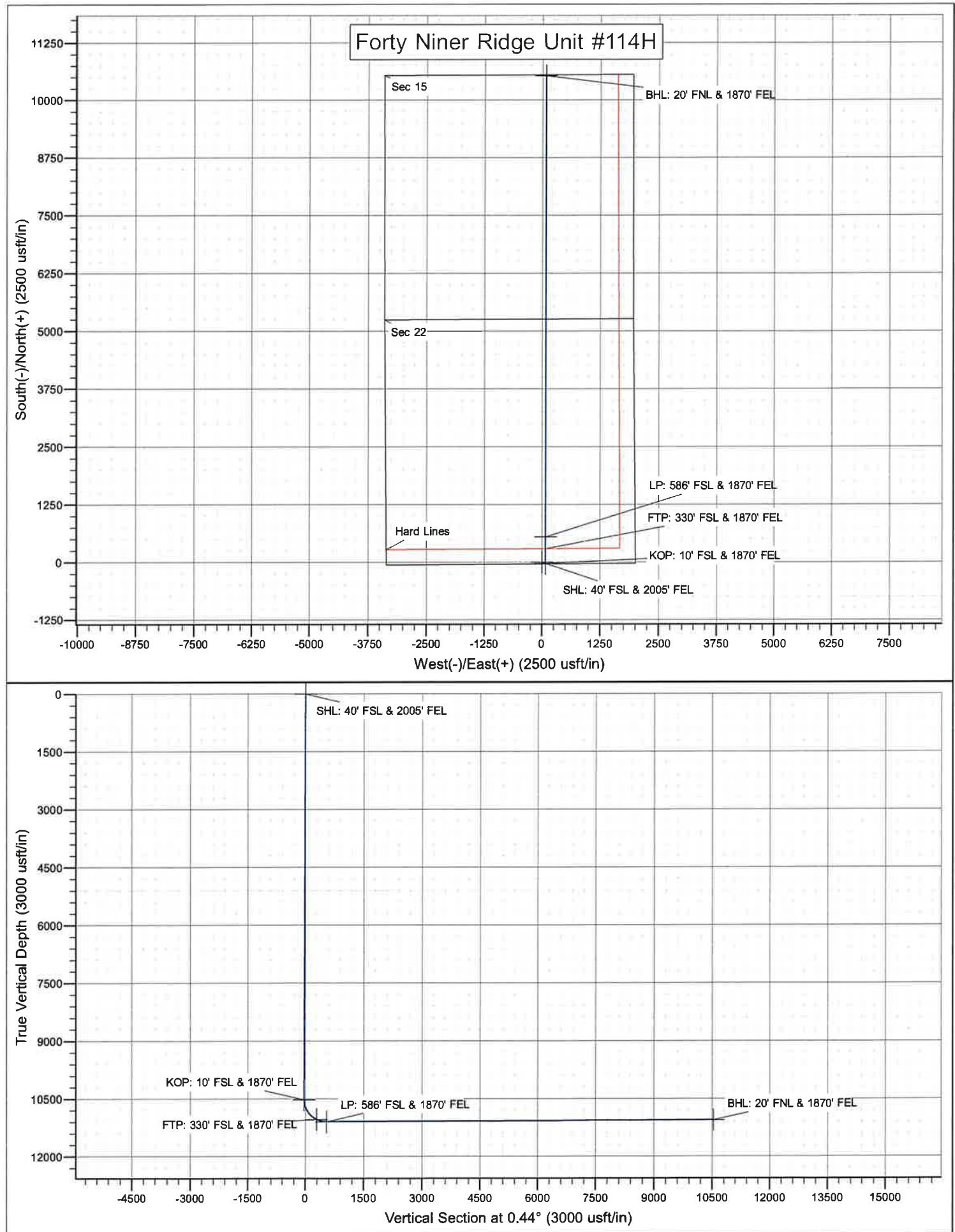
Database:	Hobbs	Local Co-ordinate Reference:	Site Forty Niner Ridge Unit #114H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3297.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3297.0usft (Original Well Elev)
Site:	Forty Niner Ridge Unit #114H	North Reference:	Grid
Well:	Sec 22, T23S, R30E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 20' FNL & 1870' FEL		
Design:	Design #1		

Planned Survey

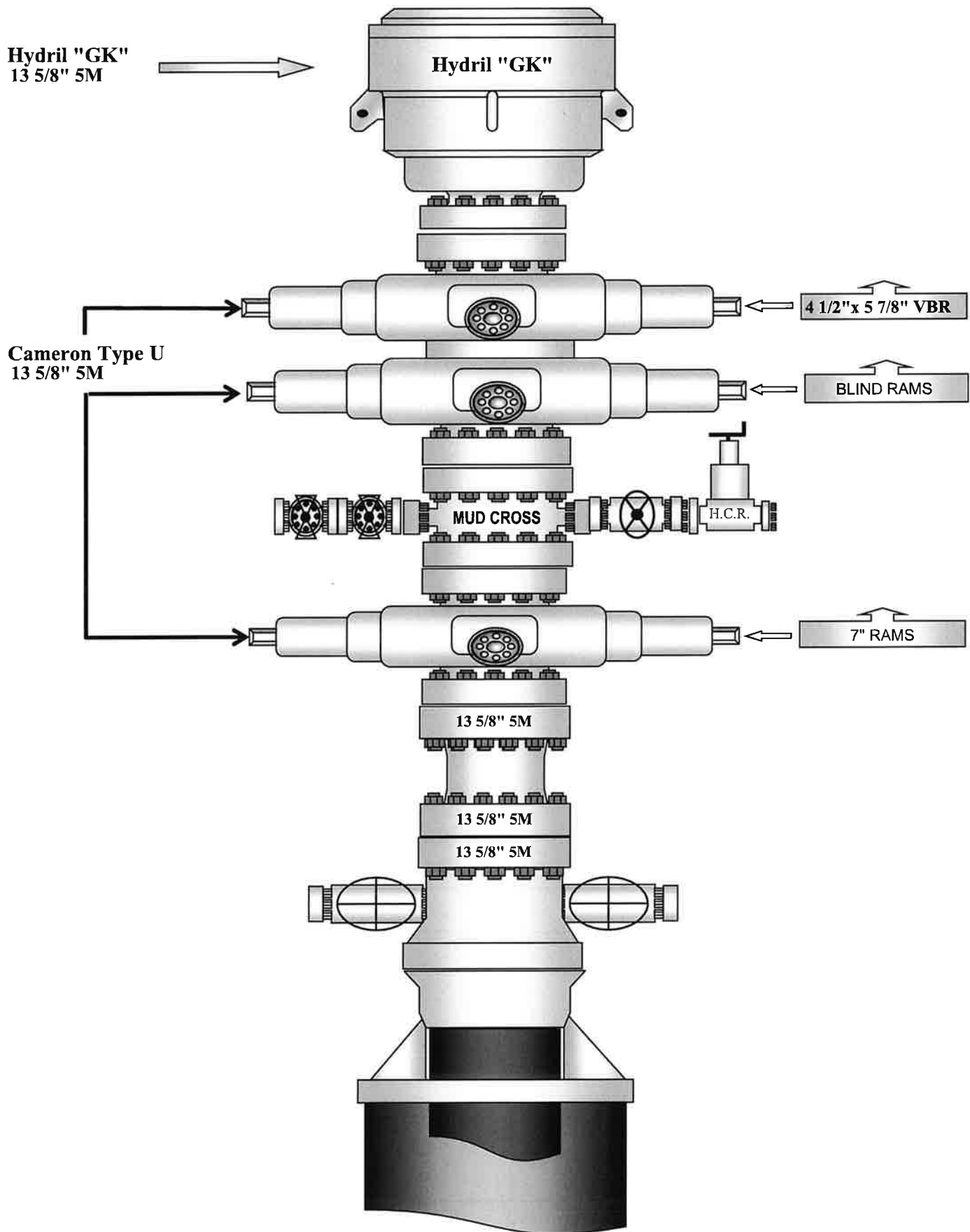
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Bulld Rate (°/100usft)	Turn Rate (°/100usft)
19,700.0	90.23	0.00	11,063.8	8,819.1	80.4	8,819.5	0.00	0.00	0.00
19,800.0	90.23	0.00	11,063.4	8,919.1	80.4	8,919.5	0.00	0.00	0.00
19,900.0	90.23	0.00	11,063.0	9,019.1	80.4	9,019.5	0.00	0.00	0.00
20,000.0	90.23	0.00	11,062.6	9,119.1	80.4	9,119.5	0.00	0.00	0.00
20,100.0	90.23	0.00	11,062.2	9,219.1	80.4	9,219.5	0.00	0.00	0.00
20,200.0	90.23	0.00	11,061.8	9,319.1	80.4	9,319.5	0.00	0.00	0.00
20,300.0	90.23	0.00	11,061.4	9,419.1	80.4	9,419.5	0.00	0.00	0.00
20,400.0	90.23	0.00	11,061.0	9,519.1	80.4	9,519.5	0.00	0.00	0.00
20,500.0	90.23	0.00	11,060.6	9,619.1	80.4	9,619.5	0.00	0.00	0.00
20,600.0	90.23	0.00	11,060.2	9,719.1	80.4	9,719.5	0.00	0.00	0.00
20,700.0	90.23	0.00	11,059.8	9,819.1	80.4	9,819.5	0.00	0.00	0.00
20,800.0	90.23	0.00	11,059.4	9,919.1	80.4	9,919.4	0.00	0.00	0.00
20,900.0	90.23	0.00	11,059.0	10,019.1	80.4	10,019.4	0.00	0.00	0.00
21,000.0	90.23	0.00	11,058.6	10,119.1	80.4	10,119.4	0.00	0.00	0.00
21,100.0	90.23	0.00	11,058.2	10,219.1	80.4	10,219.4	0.00	0.00	0.00
21,200.0	90.23	0.00	11,057.8	10,319.1	80.4	10,319.4	0.00	0.00	0.00
21,300.0	90.23	0.00	11,057.4	10,419.1	80.4	10,419.4	0.00	0.00	0.00
21,409.2	90.23	0.00	11,057.0	10,528.3	80.4	10,528.6	0.00	0.00	0.00
BHL: 20' FNL & 1870' FEL									

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SHL: 40' FSL & 2005' FE - plan hits target center - Point	0.00	0.00	0.0	0.0	0.0	467,113.70	685,525.40	32.2833077	-103.8667550
KOP: 10' FSL & 1870' FE - plan hits target center - Point	0.00	0.00	10,524.0	-29.4	80.4	467,084.35	685,605.81	32.2832261	-103.8664952
FTP: 330' FSL & 1870' F - plan hits target center - Point	0.00	0.00	11,037.8	290.0	80.4	467,403.70	685,605.81	32.2841039	-103.8664907
BHL: 20' FNL & 1870' FE - plan hits target center - Point	0.00	0.00	11,057.0	10,528.3	80.4	477,642.03	685,605.81	32.3122469	-103.8663465
LP: 586' FSL & 1870' FE - plan hits target center - Point	0.00	0.00	11,097.0	545.9	80.4	467,659.60	685,605.81	32.2848073	-103.8664871

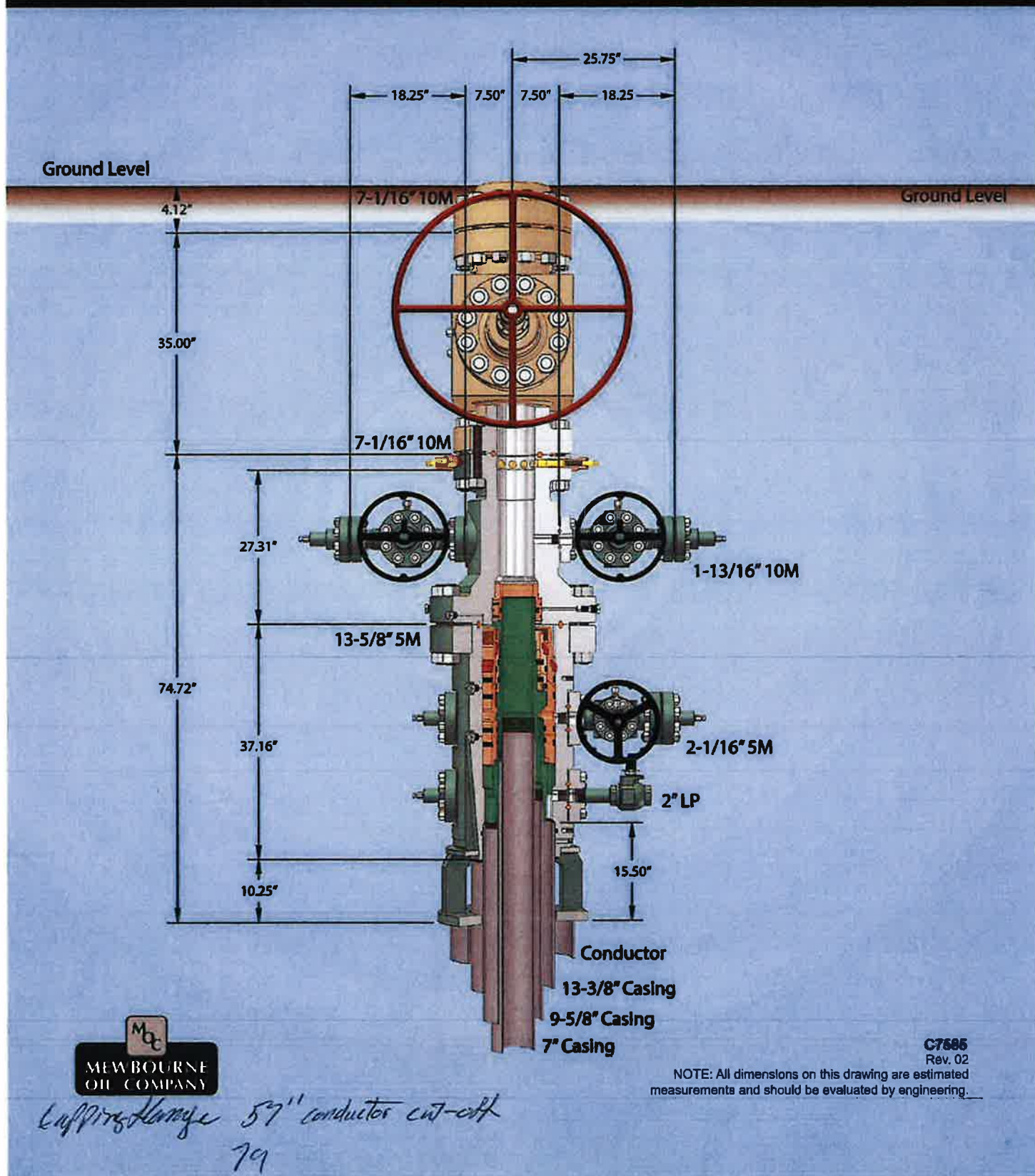


5M BOPE Schematic

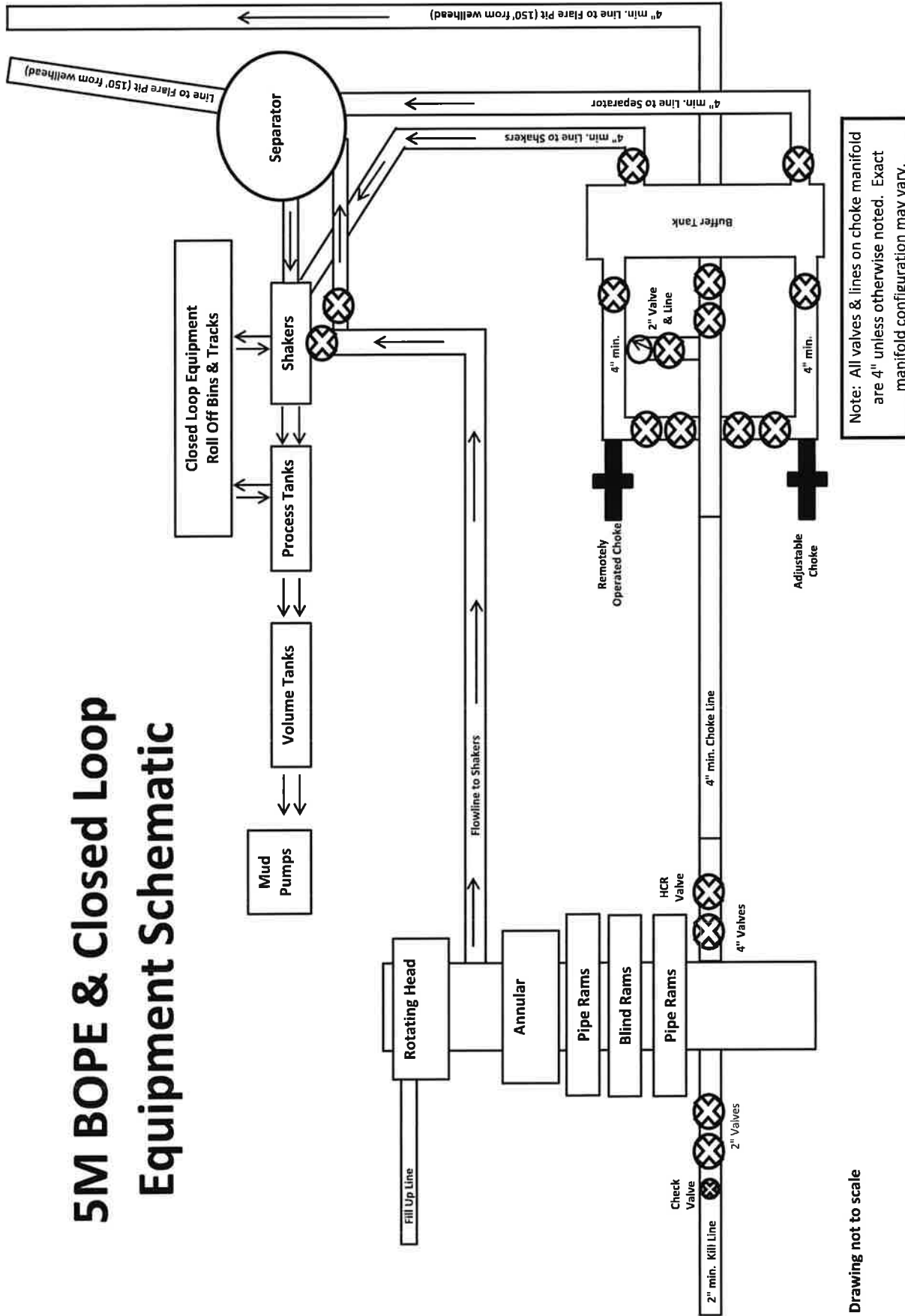




13-5/8" MN-DS Wellhead System



5M BOPE & Closed Loop Equipment Schematic



Drawing not to scale

Mewbourne Oil Company, Forty Niner Ridge Unit #114H
Sec 22, T23S, R30E
SHL: 40' FSL & 2005' FEL, Sec 22
BHL: 20' FNL & 1870' FEL, Sec 15

Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
	From	To								
17.5"	0'	425'	13.375"	48	H40	STC	3.96	8.90	15.78	26.52
12.25"	0'	3725'	9.625"	40	J55	LTC	1.33	2.04	3.48	4.23
8.75"	0'	11,427'	7"	26	HCP110	LTC	1.39	1.78	2.33	2.87
6.125"	10,525'	21,413'	4.5"	13.5	P110	LTC	1.54	1.79	2.30	2.87
BLM Minimum Safety Factor							1.125	1	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h
 Must have table for contingency casing

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Is casing API approved? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	Y
If yes, are the first three strings cemented to surface?	Y
Is 2 nd string set 100' to 600' below the base of salt?	Y
Is well located in high Cave/Karst?	Y
If yes, are there two strings cemented to surface?	Y
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

Mewbourne Oil Company, Forty Niner Ridge Unit #114H
Sec 22, T23S, R30E
SHL: 40' FSL & 2005' FEL, Sec 22
BHL: 20' FNL & 1870' FEL, Sec 15

Cementing Program

Casing	# Sk	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/ sk	500# Comp. Strength (hours)	Slurry Description
Surf,	155	12.5	2.12	11	10	Lead: Class C + Salt + Gel + Extender + LCM
	200	14.8	1.34	6.3	8	Tail: Class C + Retarder
Inter	580	12.5	2.12	11	9	Lead: Class C + Salt + Gel + Extender + LCM
	200	14.8	1.34	6.3	8	Tail: Class C + Retarder
Prod 1 st stg	460	12.5	2.12	11	9	Lead: Class C + Salt + Gel + Extender + LCM
	400	15.6	1.18	5.2	10	Tail: Class H + Retarder + Fluid Loss + Defoamer
ECP/DV Tool @ 3775'						
Prod 2 nd stg	230	12.5	2.12	11	9	Lead: Class C + Salt + Gel + Extender + LCM
	200	14.8	1.34	6.3	8	Tail: Class C + Retarder
Liner	440	11.2	2.97	18	16	Class H + Salt + Gel + Fluid Loss + Retarder + Dispersant + Defoamer + Anti-Settling Agent

A copy of cement test will be available on location at time of cement job providing pump times & compressive strengths.

Casing String	TOC	% Excess
Surface	0'	100%
Intermediate	0'	25%
Production	0'	25%
Liner	10,525'	25%

Mud Program

TVD		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0'	425'	Spud Mud	8.6-8.8	28-34	N/C
425'	3725'	Brine	10.0	28-34	N/C
3725'	11,057'	Cut Brine	8.6-9.7	28-34	N/C
11,057'	11,097'	OBM	10.0-12.0	30-40	<10cc

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

What will be used to monitor the loss or gain of fluid?	Pason/PVT/Visual Monitoring
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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

COMMENTS

Action 48997

COMMENTS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 48997
	Action Type: [C-103] NOI Change of Plans (C-103A)

COMMENTS

Created By	Comment	Comment Date
kpickford	KP GEO Review 9/17/2021	9/17/2021
jagarcia	Approved, John Garcia, Petroleum Engineer	10/22/2021

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	Action Number: 48997
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
kpickford	If FTP or LTP is within 330' of the spacing unit boundary, an NSL is required.	9/17/2021