

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-101
August 1, 2011
Permit 370538

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

1. Operator Name and Address MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241		2. OGRID Number 14744
		3. API Number 30-015-55310
4. Property Code 336200	5. Property Name Bonanza 22 15 State Com	6. Well No. 556H

7. Surface Location

UL - Lot J	Section 22	Township 25S	Range 28E	Lot Idn J	Feet From 2480	N/S Line S	Feet From 1560	E/W Line E	County Eddy
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8. Proposed Bottom Hole Location

UL - Lot B	Section 15	Township 25S	Range 28E	Lot Idn B	Feet From 100	N/S Line N	Feet From 1650	E/W Line E	County Eddy
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9. Pool Information

SAN LORENZO;BONE SPRING	53600
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Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 2963
16. Multiple N	17. Proposed Depth 16750	18. Formation 3rd Bone Spring Carbonate	19. Contractor	20. Spud Date 8/10/2024
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

☒ We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	48	475	390	0
Int1	12.25	9.625	36	2475	555	0
Prod	8.75	7	26	8079	695	2275
Liner1	6.125	4.5	13.5	16750	355	7879

Casing/Cement Program: Additional Comments

MOC proposed to drill & test the Bone Springs formation. H2S rule 118 does not apply because MOC has researched the area & no high concentrations were found. Will have on location & working all H2S safety equipment before Yates formation for safety & insurance purposes. Will stimulate as needed for production.

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Annular	5000	2500	SCHAFER
Double Ram	5000	5000	SCHAFER
Pipe	5000	5000	SCHAFER

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☒ , if applicable. Signature:		OIL CONSERVATION DIVISION	
Printed Name: Electronically filed by Monty Whetstone		Approved By: Ward Rikala	
Title: Vice President Operations		Title: Petroleum Specialist Supervisor	
Email Address: fking@mewbourne.com		Approved Date: 8/8/2024	Expiration Date: 8/8/2026
Date: 7/25/2024	Phone: 903-561-2900	Conditions of Approval Attached	

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

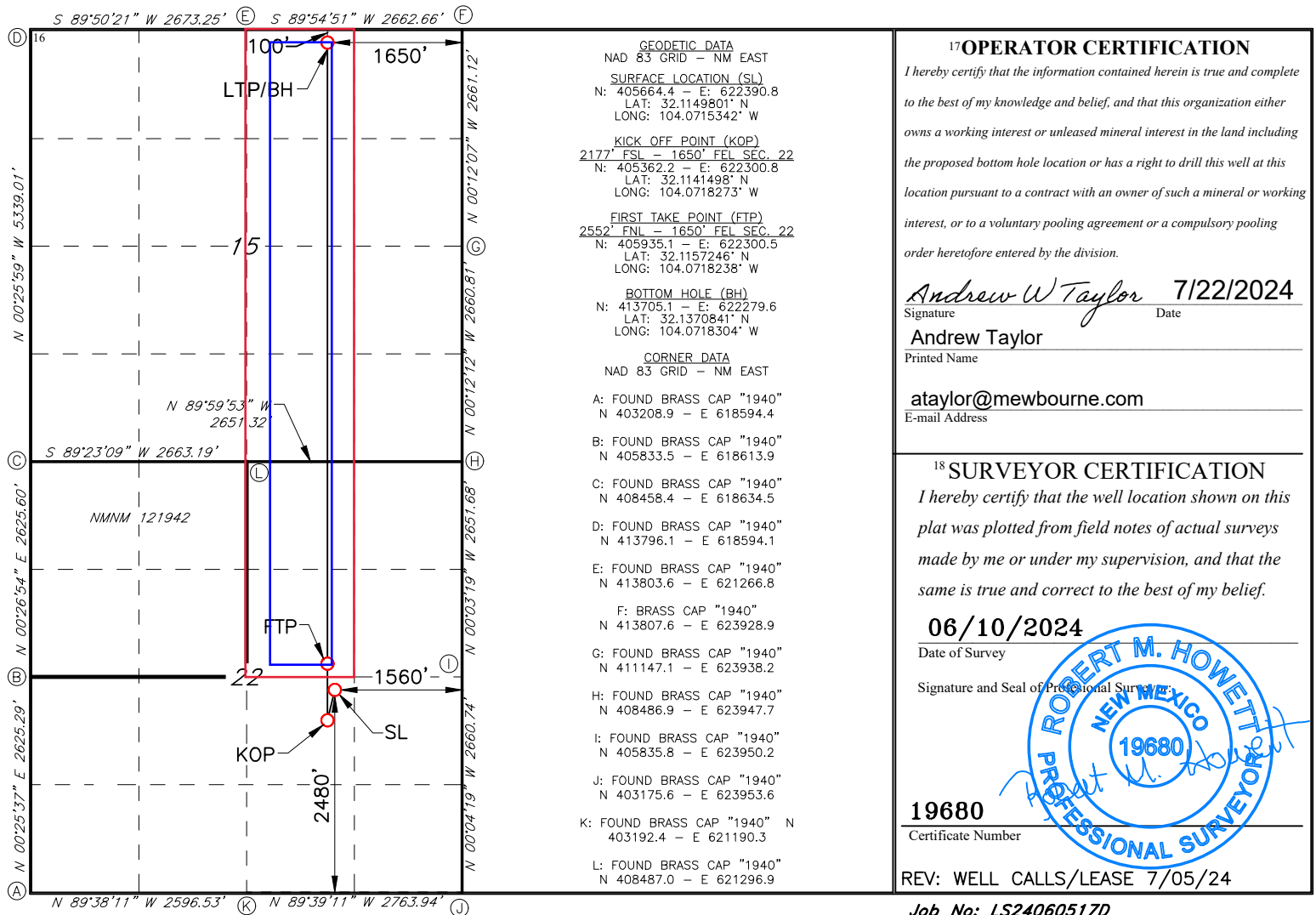
Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-55310		² Pool Code 53600		³ Pool Name SAN LORENZO; BONE SPRING					
⁴ Property Code 336200		⁵ Property Name BONANZA 22/15 STATE COM						⁶ Well Number 556H	
⁷ OGRID NO. 14744		⁸ Operator Name MEWBOURNE OIL COMPANY						⁹ Elevation 2963'	
¹⁰ Surface Location									
UL or lot no. J	Section 22	Township 25S	Range 28E	Lot Idn	Feet from the 2480	North/South line SOUTH	Feet From the 1560	East/West line EAST	County EDDY
¹¹ Bottom Hole Location If Different From Surface									
UL or lot no. B	Section 15	Township 25S	Range 28E	Lot Idn	Feet from the 100	North/South line NORTH	Feet from the 1650	East/West line EAST	County EDDY
¹² Dedicated Acres 240		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.



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Energy, Minerals and Natural Resources
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1220 S. St Francis Dr.
Santa Fe, NM 87505

Form APD Conditions
Permit 370538

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: MEWBOURNE OIL CO [14744] P.O. Box 5270 Hobbs, NM 88241	API Number: 30-015-55310
	Well: Bonanza 22 15 State Com #556H

OCD Reviewer	Condition
ward.rikala	Notify OCD 24 hours prior to casing & cement
ward.rikala	Will require a File As Drilled C-102 and a Directional Survey with the C-104
ward.rikala	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string
ward.rikala	Cement is required to circulate on both surface and intermediate1 strings of casing
ward.rikala	If cement does not circulate on any string, a CBL is required for that string of casing
ward.rikala	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system
ward.rikala	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud

Mewbourne Oil Company, Bonanza 22/15 State Com 556H**Sec 22, T25S, R28E****SHL: 2480' FSL 1560' FEL (Sec 22)****BHL: 100' FNL 1650' FEL (Sec 15)**

Operator Name:	Property Name:	Well Number
Mewbourne Oil Company	Bonanza 22/15 State Com	556H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
J	22	25S	28E	-	2177'	FSL	1650'	FEL	Eddy
Latitude					Longitude			NAD	
32.1141498					-104.0718273			83	

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
G	22	25S	28E	-	2552'	FNL	1650'	FEL	Eddy
Latitude					Longitude			NAD	
32.1157246					-104.0718238			83	

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
B	15	25S	28E	-	100'	FNL	1650'	FEL	Eddy
Latitude					Longitude			NAD	
32.1370841					-104.0718304			83	

Is this well the defining well for the Horizontal Spacing Unit?

N

Is this well an infill well?

Y

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #
30-015-49944

Operator Name:	Property Name:	Well Number
Mewbourne Oil Company	Bonanza 22/15 B2GB State Com	1H

State of New Mexico
Energy, Minerals and Natural Resources DepartmentSubmit Electronically
Via E-permittingOil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505**NATURAL GAS MANAGEMENT PLAN**

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description**Effective May 25, 2021****I. Operator:** Mewbourne Oil Co. **OGRID:** 14744 **Date:** 07/24/2024**II. Type:** ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: _____

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Bonanza 22/15 State Com #556H		22 25S 28E	2480' FSL x 1560' FWL	1500	5000	1000

IV. Central Delivery Point Name: Bonanza Master Meter [See 19.15.27.9(D)(1) NMAC]**V. Anticipated Schedule:** Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Bonanza 22/15 State Com #556H		11/24/2024	12/24/2024	1/24/2025	02/08/2024	02/13/2024

VI. Separation Equipment: ☒ Attach a complete description of how Operator will size separation equipment to optimize gas capture.**VII. Operational Practices:** ☒ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.**VIII. Best Management Practices:** ☒ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan
EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

☒ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. ☐ Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system ☐ will ☐ will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator ☐ does ☐ does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

☐ Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: ☐ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Section 3 - Certifications

Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

☒ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system.

If Operator checks this box, Operator will select one of the following:

Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. ☐ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

Section 4 - Notices

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

Page 8

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature:	<i>Bradley Bishop</i>
Printed Name:	BRADLEY BISHOP
Title:	REGULATORY MANAGER
E-mail Address:	BBISHOP@MEWBOURNE.COM
Date:	07/24/2024
Phone:	575-393-5905
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)	
Approved By:	
Title:	
Approval Date:	
Conditions of Approval:	

Mewbourne Oil Company

Natural Gas Management Plan – Attachment

- VI. Separation equipment will be sized by construction engineering staff based on stated manufacturer daily throughput capacities and anticipated daily production rates to ensure adequate capacity. Closed vent system piping, compression needs, and VRUs will be sized utilizing ProMax modelling software to ensure adequate capacity for anticipated production volumes and conditions.
- VII. Mewbourne Oil Company (MOC) will take following actions to comply with the regulations listed in 19.15.27.8 :
- A. MOC will maximize the recovery of natural gas by minimizing the waste, as defined by 19.15.2 NMAC, of natural gas through venting and flaring. MOC will ensure that well(s) will be connected to a natural gas gathering system with sufficient capacity to transport natural gas. If there is no adequate takeaway for the gas, well(s) will be shut in until the natural gas gathering system is available.
 - B. All drilling operations will be equipped with a rig flare located at least 100 ft from the nearest surface hole. Rig flare will be utilized to combust any natural gas that is brought to surface during normal drilling operations. In the case of emergency venting or flaring the volumes will be estimated and reported appropriately.
 - C. During completion operations any natural gas brought to surface will be flared. Immediately following the finish of completion operations, all well flow will be directed to permanent separation equipment. Produced natural gas from separation equipment will be sent to sales. It is not anticipated that gas will not meet pipeline standards. However, if natural gas does not meet gathering pipeline quality specifications, MOC will flare the natural gas for 60 days or until the natural gas meets the pipeline quality specifications, whichever is sooner. MOC will ensure that the flare is sized properly and is equipped with automatic igniter or continuous pilot. The gas sample will analyzed twice per week and the gas will be routed into a gathering system as soon as pipeline specifications are met.
 - D. Natural gas will not be flared with the exceptions and provisions listed in the 19.15.27.8 D.(1) through (4). If there is no adequate takeaway for the separator gas, well(s) will be shut in until the natural gas gathering system is available with exception of emergency or malfunction situations. Venting and/or flaring volumes will be estimated and reported appropriately.
 - E. MOC will comply with the performance standards requirements and provisions listed in 19.15.27.8 E.(1) through (8). All equipment will be designed and sized to handle maximum anticipated pressures and throughputs in order to minimize the waste. Production storage tanks constructed after May 25, 2021 will be equipped with automatic gauging system. Flares constructed after May 25, 2021 will be equipped with automatic igniter or continuous pilot. Flares will be located at least 100' from the well and storage tanks unless otherwise approved by the division. MOC will conduct AVO inspections as described in 19.15.27.8 E (5) (a) with frequencies specified in 19.15.27.8 E (5) (b) and (c). All emergencies will be resolved as quickly and safely as feasible to minimize waste.
 - F. The volume of natural gas that is vented or flared as the result of malfunction or emergency during drilling and completions operations will be estimated. The volume of natural gas that is vented, flared or beneficially used during production operations, will be measured or estimated. MOC will install equipment to measure

the volume of natural gas flared from existing process piping or a flowline piped from equipment such as high pressure separators, heater treaters, or vapor recovery units associated with a well or facility associated with a well authorized by an APD issued after May 25, 2021 that has an average daily production greater than 60 Mcf/day. If metering is not practicable due to circumstances such as low flow rate or low pressure venting and flaring, MOC will estimate the volume of vented or flared natural gas. Measuring equipment will conform to industry standards and will not be designed or equipped with a manifold that allows the diversion of natural gas around the metering element except for the sole purpose of inspecting and servicing the measurement equipment.

- VIII. For maintenance activities involving production equipment and compression, venting will be limited to the depressurization of the subject equipment to ensure safe working conditions. For maintenance of production and compression equipment the associated producing wells will be shut in to eliminate venting. For maintenance of VRUs all gas normally routed to the VRU will be routed to flare to eliminate venting.

MEWBOURNE OIL COMPANY

EDDY COUNTY, NEW MEXICO (NAD 83 - GRID)

SEC. 22 T25S R28E

BONANZA 22/15 STATE COM 556H

ORIGINAL WELLBORE

09 July, 2024

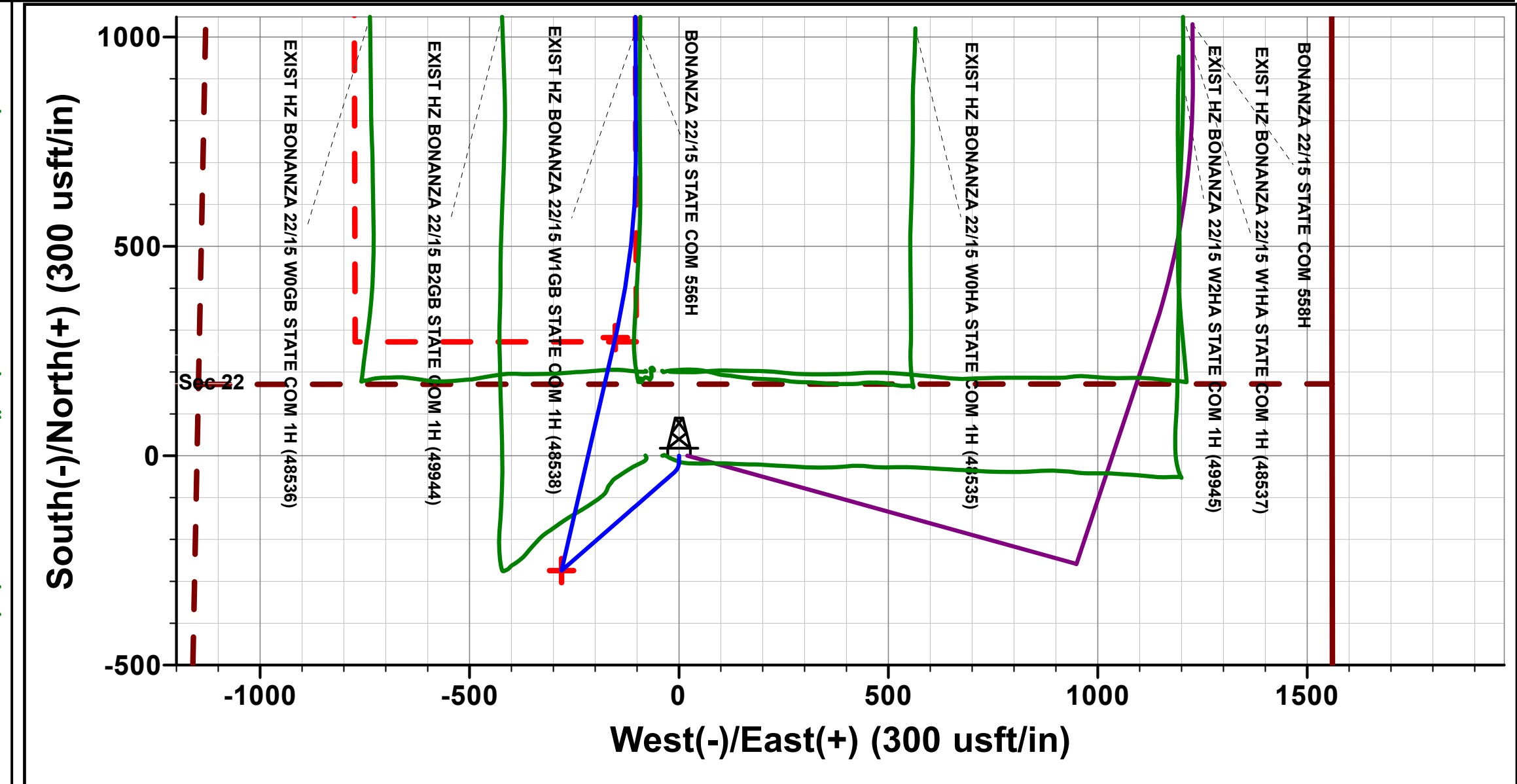
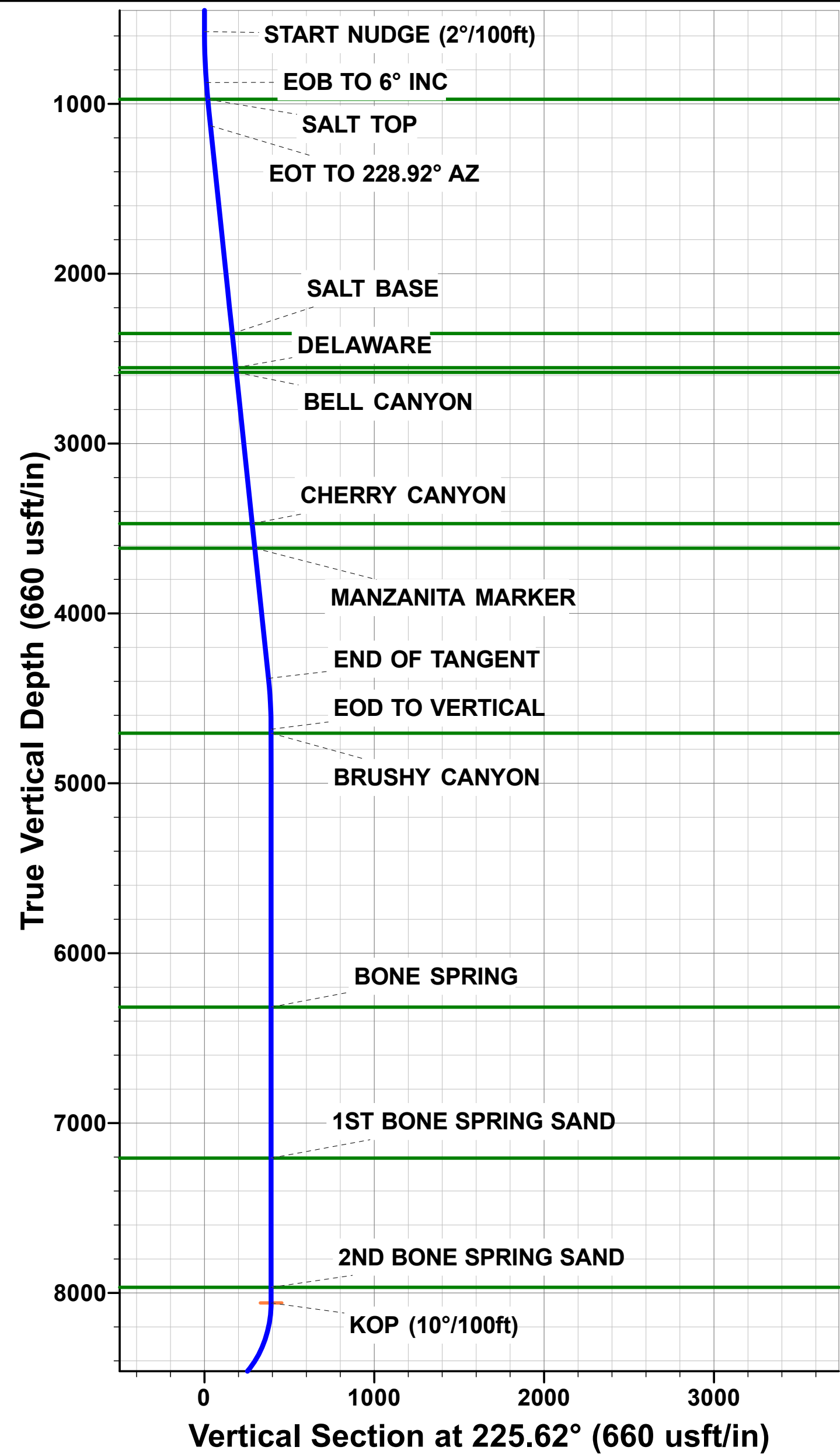
Plan: PROPOSAL #2



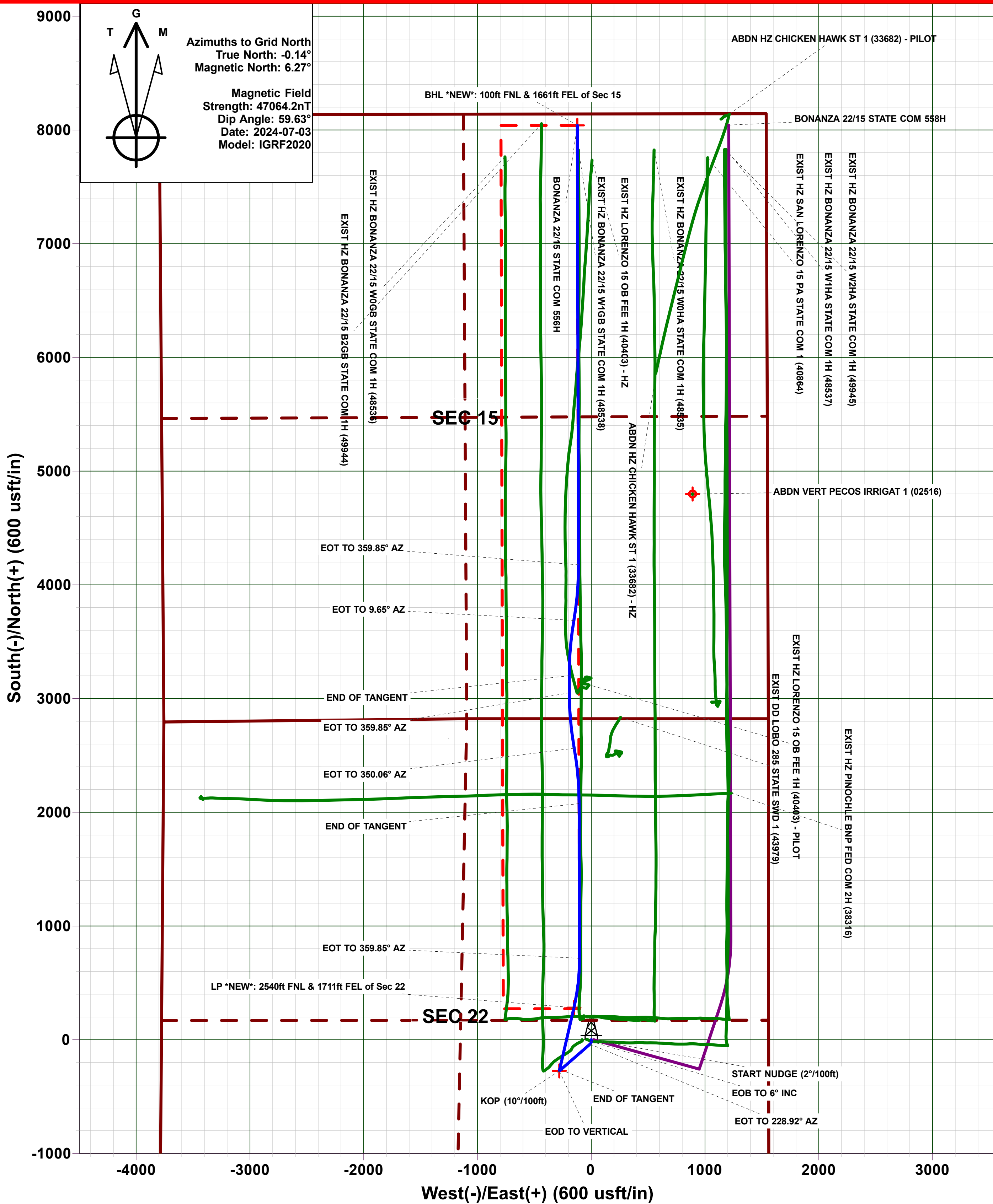
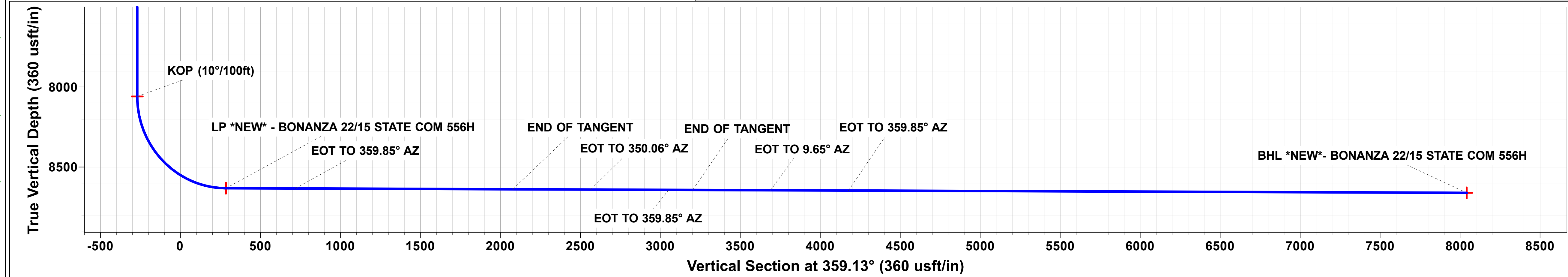
Project: EDDY COUNTY, NEW MEXICO (NAD 83 - GRID)
Site: SEC. 22 T25S R28E
Well: BONANZA 22/15 STATE COM 556H
Wellbore: ORIGINAL WELLBORE
Design: PROPOSAL #2

ANNOTATIONS								
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSect	Dep	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL: 2480ft FSL & 1560ft FEL of Sec 22
575.00	0.00	0.00	575.00	0.00	0.00	0.00	0.00	START NUDGE (2°/100ft)
875.00	6.00	180.00	874.45	-15.69	0.00	-15.69	15.69	EOB TO 6° INC
1130.67	6.00	228.92	1128.72	-39.31	-10.74	-39.14	42.43	EOT TO 228.92° AZ
4401.78	6.00	228.92	4381.91	-264.00	-268.47	-259.89	384.36	END OF TANGENT
4701.78	0.00	0.00	4681.36	-274.31	-280.30	-270.02	400.05	EOD TO VERTICAL
8079.44	0.00	0.00	8059.02	-274.31	-280.30	-270.02	400.05	KOP (10°/100ft)
8977.36	89.79	13.00	8632.00	281.92	-151.88	284.20	970.92	LP *NEW*: 2540ft FNL & 1711ft FEL of Sec 22
9415.70	89.79	359.85	8633.64	716.55	-102.93	718.03	1409.25	EOT TO 359.85° AZ
10775.15	89.79	359.85	8638.70	2075.99	-106.49	2077.37	2768.70	END OF TANGENT
11264.65	89.79	350.06	8640.51	2562.99	-149.49	2564.97	3258.19	EOT TO 350.06° AZ
11754.15	89.79	359.85	8642.31	3050.00	-192.48	3052.57	3747.69	EOT TO 359.85° AZ
11904.15	89.79	359.85	8642.86	3200.00	-192.87	3202.56	3897.69	END OF TANGENT
12394.14	89.79	9.65	8644.67	3687.71	-152.35	3689.60	4387.67	EOT TO 9.65° AZ
12884.33	89.79	359.85	8646.51	4175.62	-111.82	4176.83	4877.86	EOT TO 359.85° AZ
16749.43	89.79	359.85	8661.00	8040.68	-122.20	8041.60	8742.93	BHL *NEW*: 100ft FNL & 1661ft FEL of Sec 15

WELLBORE TARGET DETAILS (LAT/LONG)							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
KOP - BONANZA 22/15 STATE COM 556H	8059.02	-274.31	-280.30	405390.09	622110.50	32.114228	-104.072442
LP *NEW* - BONANZA 22/15 STATE COM 556H	8632.00	281.92	-151.88	405946.32	622238.92	32.115756	-104.072023
BHL *NEW*- BONANZA 22/15 STATE COM 556H	8661.00	8040.68	-122.20	413705.08	622268.60	32.137084	-104.071866



SETBACK BOUNDARIES
100ft FNL of Sec 15 & 2550ft FNL of Sec 22
1661ft & 2332ft FEL of Sec 22/15
LATERAL PLANNED ALONG EAST SIDE OF SETBACK





Planning Report



Database:	Database 1	Local Co-ordinate Reference:	Well BONANZA 22/15 STATE COM 556H
Company:	MEWBOURNE OIL COMPANY	TVD Reference:	KBE @ 2991.00usft (PATT 267)
Project:	EDDY COUNTY, NEW MEXICO (NAD 83 - GRID)	MD Reference:	KBE @ 2991.00usft (PATT 267)
Site:	SEC. 22 T25S R28E	North Reference:	Grid
Well:	BONANZA 22/15 STATE COM 556H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #2		

Project	EDDY COUNTY, NEW MEXICO (NAD 83 - GRID)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	SEC. 22 T25S R28E		
Site Position:		Northing:	405,664.40 usft
From:	Map	Easting:	622,410.80 usft
Position Uncertainty:	0.00 usft	Slot Radius:	1.10 ft
		Latitude:	32.114980
		Longitude:	-104.071470
		Grid Convergence:	0.14 °

Well	BONANZA 22/15 STATE COM 556H		
Well Position	+N/-S	0.00 usft	Northing:
	+E/-W	-20.00 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
		Latitude:	32.114980
		Longitude:	-104.071534
		Ground Level:	2,963.00 usft

Wellbore	ORIGINAL WELLBORE				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	2024-07-03	6.41	59.63	47,064.24760637

Design	PROPOSAL #2			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	359.13

Plan Sections											
MD (usft)	Inc (°)	Azi (°)	Vertical Depth	SS (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usf	Build Rate (°/100usf	Turn Rate (°/100usf	TFO (°)	Target
0.00	0.00	0.00	0.00	-2,991.00	0.00	0.00	0.00	0.00	0.00	0.00	
575.00	0.00	0.00	575.00	-2,416.00	0.00	0.00	0.00	0.00	0.00	0.00	
875.00	6.00	180.00	874.45	-2,116.55	-15.69	0.00	2.00	2.00	0.00	180.00	
1,130.67	6.00	228.92	1,128.72	-1,862.28	-39.31	-10.74	2.00	0.00	19.11	90.00	
4,401.78	6.00	228.92	4,381.91	1,390.91	-264.00	-268.47	0.00	0.00	0.00	0.00	
4,701.78	0.00	0.00	4,681.36	1,690.36	-274.31	-280.30	2.00	-2.00	43.69	180.00	
8,079.44	0.00	0.00	8,059.02	5,068.02	-274.31	-280.30	0.00	0.00	0.00	0.00	KOP - BONANZA 2
8,977.36	89.79	13.00	8,632.00	5,641.00	281.92	-151.88	10.00	10.00	1.45	13.00	LP *NEW* - BONA
9,415.70	89.79	359.85	8,633.64	5,642.64	716.55	-102.93	3.00	0.00	-3.00	-90.03	
10,775.15	89.79	359.85	8,638.70	5,647.70	2,075.99	-106.49	0.00	0.00	0.00	0.00	
11,264.65	89.79	350.06	8,640.51	5,649.51	2,562.99	-149.49	2.00	0.00	-2.00	-90.00	
11,754.15	89.79	359.85	8,642.31	5,651.31	3,050.00	-192.48	2.00	0.00	2.00	90.01	
11,904.15	89.79	359.85	8,642.86	5,651.86	3,200.00	-192.87	0.00	0.00	0.00	0.00	
12,394.14	89.79	9.65	8,644.67	5,653.67	3,687.71	-152.35	2.00	0.00	2.00	90.05	
12,884.33	89.79	359.85	8,646.51	5,655.51	4,175.62	-111.82	2.00	0.00	-2.00	-90.02	
16,749.43	89.79	359.85	8,661.00	5,670.00	8,040.68	-122.20	0.00	0.00	0.00	0.00	BHL *NEW* - BONA



Planning Report



Database:	Database 1	Local Co-ordinate Reference:	Well BONANZA 22/15 STATE COM 556H
Company:	MEWBOURNE OIL COMPANY	TVD Reference:	KBE @ 2991.00usft (PATT 267)
Project:	EDDY COUNTY, NEW MEXICO (NAD 83 - GRID)	MD Reference:	KBE @ 2991.00usft (PATT 267)
Site:	SEC. 22 T25S R28E	North Reference:	Grid
Well:	BONANZA 22/15 STATE COM 556H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #2		

Planned Survey

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	SS (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
SHL: 2480ft FSL & 1560ft FEL of Sec 22										
0.00	0.00	0.00	0.00	2,991.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	2,891.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	2,791.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	2,691.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	2,591.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	2,491.00	0.00	0.00	0.00	0.00	0.00	0.00
START NUDGE (2°/100ft)										
575.00	0.00	0.00	575.00	2,416.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.50	180.00	600.00	2,391.00	-0.11	0.00	-0.11	2.00	2.00	0.00
700.00	2.50	180.00	699.96	2,291.04	-2.73	0.00	-2.73	2.00	2.00	0.00
800.00	4.50	180.00	799.77	2,191.23	-8.83	0.00	-8.83	2.00	2.00	0.00
EOB TO 6° INC										
875.00	6.00	180.00	874.45	2,116.55	-15.69	0.00	-15.69	2.00	2.00	0.00
900.00	6.00	184.78	899.31	2,091.69	-18.30	-0.11	-18.30	2.00	0.00	19.13
SALT TOP										
974.09	6.05	198.90	973.00	2,018.00	-25.86	-1.70	-25.83	2.00	0.07	19.06
1,000.00	6.00	203.91	998.77	1,992.23	-28.39	-2.69	-28.34	2.04	-0.18	19.32
1,100.00	6.01	223.02	1,098.22	1,892.78	-37.08	-8.43	-36.94	1.99	0.00	19.12
EOT TO 228.92° AZ										
1,130.67	6.00	228.92	1,128.72	1,862.28	-39.31	-10.74	-39.14	2.01	-0.02	19.22
1,200.00	6.00	228.92	1,197.67	1,793.33	-44.07	-16.20	-43.82	0.00	0.00	0.00
1,300.00	6.00	228.92	1,297.12	1,693.88	-50.94	-24.08	-50.57	0.00	0.00	0.00
1,400.00	6.00	228.92	1,396.57	1,594.43	-57.81	-31.96	-57.31	0.00	0.00	0.00
1,500.00	6.00	228.92	1,496.03	1,494.97	-64.68	-39.84	-64.06	0.00	0.00	0.00
1,600.00	6.00	228.92	1,595.48	1,395.52	-71.54	-47.72	-70.81	0.00	0.00	0.00
1,700.00	6.00	228.92	1,694.93	1,296.07	-78.41	-55.60	-77.56	0.00	0.00	0.00
1,800.00	6.00	228.92	1,794.38	1,196.62	-85.28	-63.47	-84.31	0.00	0.00	0.00
1,900.00	6.00	228.92	1,893.83	1,097.17	-92.15	-71.35	-91.06	0.00	0.00	0.00
2,000.00	6.00	228.92	1,993.29	997.71	-99.02	-79.23	-97.80	0.00	0.00	0.00
2,100.00	6.00	228.92	2,092.74	898.26	-105.89	-87.11	-104.55	0.00	0.00	0.00
2,200.00	6.00	228.92	2,192.19	798.81	-112.76	-94.99	-111.30	0.00	0.00	0.00
2,300.00	6.00	228.92	2,291.64	699.36	-119.63	-102.87	-118.05	0.00	0.00	0.00
SALT BASE										
2,360.69	6.00	228.92	2,352.00	639.00	-123.80	-107.65	-122.15	0.00	0.00	0.00
2,400.00	6.00	228.92	2,391.10	599.90	-126.50	-110.75	-124.80	0.00	0.00	0.00
2,500.00	6.00	228.92	2,490.55	500.45	-133.36	-118.63	-131.55	0.00	0.00	0.00
DELAWARE										
2,562.80	6.00	228.92	2,553.00	438.00	-137.68	-123.58	-135.78	0.00	0.00	0.00
BELL CANYON										
2,590.95	6.00	228.92	2,581.00	410.00	-139.61	-125.79	-137.68	0.00	0.00	0.00
2,600.00	6.00	228.92	2,590.00	401.00	-140.23	-126.51	-138.30	0.00	0.00	0.00
2,700.00	6.00	228.92	2,689.45	301.55	-147.10	-134.39	-145.04	0.00	0.00	0.00
2,800.00	6.00	228.92	2,788.90	202.10	-153.97	-142.27	-151.79	0.00	0.00	0.00
2,900.00	6.00	228.92	2,888.36	102.64	-160.84	-150.14	-158.54	0.00	0.00	0.00
3,000.00	6.00	228.92	2,987.81	3.19	-167.71	-158.02	-165.29	0.00	0.00	0.00
3,100.00	6.00	228.92	3,087.26	-96.26	-174.58	-165.90	-172.04	0.00	0.00	0.00
3,200.00	6.00	228.92	3,186.71	-195.71	-181.45	-173.78	-178.79	0.00	0.00	0.00
3,300.00	6.00	228.92	3,286.17	-295.17	-188.32	-181.66	-185.53	0.00	0.00	0.00
3,400.00	6.00	228.92	3,385.62	-394.62	-195.19	-189.54	-192.28	0.00	0.00	0.00
CHERRY CANYON										
3,485.85	6.00	228.92	3,471.00	-480.00	-201.08	-196.30	-198.08	0.00	0.00	0.00



Planning Report



Database:	Database 1	Local Co-ordinate Reference:	Well BONANZA 22/15 STATE COM 556H
Company:	MEWBOURNE OIL COMPANY	TVD Reference:	KBE @ 2991.00usft (PATT 267)
Project:	EDDY COUNTY, NEW MEXICO (NAD 83 - GRID)	MD Reference:	KBE @ 2991.00usft (PATT 267)
Site:	SEC. 22 T25S R28E	North Reference:	Grid
Well:	BONANZA 22/15 STATE COM 556H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #2		

Planned Survey

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	SS (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
3,500.00	6.00	228.92	3,485.07	-494.07	-202.05	-197.42	-199.03	0.00	0.00	0.00
3,600.00	6.00	228.92	3,584.52	-593.52	-208.92	-205.30	-205.78	0.00	0.00	0.00
MANZANITA MARKER										
3,631.65	6.00	228.92	3,616.00	-625.00	-211.10	-207.79	-207.92	0.00	0.00	0.00
3,700.00	6.00	228.92	3,683.97	-692.97	-215.79	-213.18	-212.53	0.00	0.00	0.00
3,800.00	6.00	228.92	3,783.43	-792.43	-222.66	-221.06	-219.28	0.00	0.00	0.00
3,900.00	6.00	228.92	3,882.88	-891.88	-229.53	-228.94	-226.02	0.00	0.00	0.00
4,000.00	6.00	228.92	3,982.33	-991.33	-236.40	-236.81	-232.77	0.00	0.00	0.00
4,100.00	6.00	228.92	4,081.78	-1,090.78	-243.27	-244.69	-239.52	0.00	0.00	0.00
4,200.00	6.00	228.92	4,181.24	-1,190.24	-250.14	-252.57	-246.27	0.00	0.00	0.00
4,300.00	6.00	228.92	4,280.69	-1,289.69	-257.01	-260.45	-253.02	0.00	0.00	0.00
4,400.00	6.00	228.92	4,380.14	-1,389.14	-263.87	-268.33	-259.77	0.00	0.00	0.00
END OF TANGENT										
4,401.78	6.00	228.92	4,381.91	-1,390.91	-264.00	-268.47	-259.89	0.00	0.00	0.00
4,500.00	4.04	228.92	4,479.75	-1,488.75	-269.64	-274.95	-265.43	2.00	-2.00	0.00
4,600.00	2.04	228.92	4,579.60	-1,588.60	-273.12	-278.94	-268.85	2.00	-2.00	0.00
4,700.00	0.04	228.92	4,679.58	-1,688.58	-274.31	-280.30	-270.02	2.00	-2.00	0.00
EOD TO VERTICAL										
4,701.78	0.00	0.00	4,681.36	-1,690.36	-274.31	-280.30	-270.02	2.00	-2.00	7,364.09
BRUSHY CANYON										
4,725.42	0.00	0.00	4,705.00	-1,714.00	-274.31	-280.30	-270.02	0.00	0.00	0.00
4,800.00	0.00	0.00	4,779.58	-1,788.58	-274.31	-280.30	-270.02	0.00	0.00	0.00
4,900.00	0.00	0.00	4,879.58	-1,888.58	-274.31	-280.30	-270.02	0.00	0.00	0.00
5,000.00	0.00	0.00	4,979.58	-1,988.58	-274.31	-280.30	-270.02	0.00	0.00	0.00
5,100.00	0.00	0.00	5,079.58	-2,088.58	-274.31	-280.30	-270.02	0.00	0.00	0.00
5,200.00	0.00	0.00	5,179.58	-2,188.58	-274.31	-280.30	-270.02	0.00	0.00	0.00
5,300.00	0.00	0.00	5,279.58	-2,288.58	-274.31	-280.30	-270.02	0.00	0.00	0.00
5,400.00	0.00	0.00	5,379.58	-2,388.58	-274.31	-280.30	-270.02	0.00	0.00	0.00
5,500.00	0.00	0.00	5,479.58	-2,488.58	-274.31	-280.30	-270.02	0.00	0.00	0.00
5,600.00	0.00	0.00	5,579.58	-2,588.58	-274.31	-280.30	-270.02	0.00	0.00	0.00
5,700.00	0.00	0.00	5,679.58	-2,688.58	-274.31	-280.30	-270.02	0.00	0.00	0.00
5,800.00	0.00	0.00	5,779.58	-2,788.58	-274.31	-280.30	-270.02	0.00	0.00	0.00
5,900.00	0.00	0.00	5,879.58	-2,888.58	-274.31	-280.30	-270.02	0.00	0.00	0.00
6,000.00	0.00	0.00	5,979.58	-2,988.58	-274.31	-280.30	-270.02	0.00	0.00	0.00
6,100.00	0.00	0.00	6,079.58	-3,088.58	-274.31	-280.30	-270.02	0.00	0.00	0.00
6,200.00	0.00	0.00	6,179.58	-3,188.58	-274.31	-280.30	-270.02	0.00	0.00	0.00
6,300.00	0.00	0.00	6,279.58	-3,288.58	-274.31	-280.30	-270.02	0.00	0.00	0.00
BONE SPRING										
6,338.42	0.00	0.00	6,318.00	-3,327.00	-274.31	-280.30	-270.02	0.00	0.00	0.00
6,400.00	0.00	0.00	6,379.58	-3,388.58	-274.31	-280.30	-270.02	0.00	0.00	0.00
6,500.00	0.00	0.00	6,479.58	-3,488.58	-274.31	-280.30	-270.02	0.00	0.00	0.00
6,600.00	0.00	0.00	6,579.58	-3,588.58	-274.31	-280.30	-270.02	0.00	0.00	0.00
6,700.00	0.00	0.00	6,679.58	-3,688.58	-274.31	-280.30	-270.02	0.00	0.00	0.00
6,800.00	0.00	0.00	6,779.58	-3,788.58	-274.31	-280.30	-270.02	0.00	0.00	0.00
6,900.00	0.00	0.00	6,879.58	-3,888.58	-274.31	-280.30	-270.02	0.00	0.00	0.00
7,000.00	0.00	0.00	6,979.58	-3,988.58	-274.31	-280.30	-270.02	0.00	0.00	0.00
7,100.00	0.00	0.00	7,079.58	-4,088.58	-274.31	-280.30	-270.02	0.00	0.00	0.00
7,200.00	0.00	0.00	7,179.58	-4,188.58	-274.31	-280.30	-270.02	0.00	0.00	0.00
1ST BONE SPRING SAND										
7,226.42	0.00	0.00	7,206.00	-4,215.00	-274.31	-280.30	-270.02	0.00	0.00	0.00
7,300.00	0.00	0.00	7,279.58	-4,288.58	-274.31	-280.30	-270.02	0.00	0.00	0.00
7,400.00	0.00	0.00	7,379.58	-4,388.58	-274.31	-280.30	-270.02	0.00	0.00	0.00



Planning Report



Database:	Database 1	Local Co-ordinate Reference:	Well BONANZA 22/15 STATE COM 556H
Company:	MEWBOURNE OIL COMPANY	TVD Reference:	KBE @ 2991.00usft (PATT 267)
Project:	EDDY COUNTY, NEW MEXICO (NAD 83 - GRID)	MD Reference:	KBE @ 2991.00usft (PATT 267)
Site:	SEC. 22 T25S R28E	North Reference:	Grid
Well:	BONANZA 22/15 STATE COM 556H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #2		

Planned Survey

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	SS (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,500.00	0.00	0.00	7,479.58	-4,488.58	-274.31	-280.30	-270.02	0.00	0.00	0.00
7,600.00	0.00	0.00	7,579.58	-4,588.58	-274.31	-280.30	-270.02	0.00	0.00	0.00
7,700.00	0.00	0.00	7,679.58	-4,688.58	-274.31	-280.30	-270.02	0.00	0.00	0.00
7,800.00	0.00	0.00	7,779.58	-4,788.58	-274.31	-280.30	-270.02	0.00	0.00	0.00
7,900.00	0.00	0.00	7,879.58	-4,888.58	-274.31	-280.30	-270.02	0.00	0.00	0.00
2ND BONE SPRING SAND										
7,987.42	0.00	0.00	7,967.00	-4,976.00	-274.31	-280.30	-270.02	0.00	0.00	0.00
8,000.00	0.00	0.00	7,979.58	-4,988.58	-274.31	-280.30	-270.02	0.00	0.00	0.00
KOP (10°/100ft)										
8,079.44	0.00	0.00	8,059.02	-5,068.02	-274.31	-280.30	-270.02	0.00	0.00	0.00
8,100.00	2.06	13.00	8,079.58	-5,088.58	-273.95	-280.22	-269.66	10.00	10.00	63.23
8,200.00	12.06	13.00	8,178.69	-5,187.69	-262.00	-277.46	-257.75	10.00	10.00	0.00
8,300.00	22.06	13.00	8,274.18	-5,283.18	-233.46	-270.87	-229.31	10.00	10.00	0.00
8,400.00	32.05	13.00	8,363.12	-5,372.12	-189.19	-260.65	-185.21	10.00	10.00	0.00
8,500.00	42.05	13.00	8,442.82	-5,451.82	-130.55	-247.11	-126.78	10.00	10.00	0.00
8,600.00	52.05	13.00	8,510.87	-5,519.87	-59.32	-230.66	-55.81	10.00	10.00	0.00
8,700.00	62.05	13.00	8,565.19	-5,574.19	22.34	-211.81	25.56	10.00	10.00	0.00
8,800.00	72.05	13.00	8,604.12	-5,613.12	111.95	-191.12	114.85	10.00	10.00	0.00
8,900.00	82.05	13.00	8,626.50	-5,635.50	206.79	-169.22	209.34	10.00	10.00	0.00
LP *NEW*: 2540ft FNL & 1711ft FEL of Sec 22										
8,977.36	89.79	13.00	8,632.00	-5,641.00	281.92	-151.88	284.20	10.00	10.00	0.00
9,000.00	89.79	12.32	8,632.08	-5,641.08	304.01	-146.92	306.21	3.00	0.00	-3.00
9,100.00	89.79	9.32	8,632.46	-5,641.46	402.22	-128.15	404.12	3.00	0.00	-3.00
9,200.00	89.79	6.32	8,632.83	-5,641.83	501.28	-114.54	502.96	3.00	0.00	-3.00
9,300.00	89.79	3.32	8,633.20	-5,642.20	600.91	-106.14	602.46	3.00	0.00	-3.00
9,400.00	89.79	0.32	8,633.58	-5,642.58	700.85	-102.96	702.33	3.00	0.00	-3.00
EOT TO 359.85° AZ										
9,415.70	89.79	359.85	8,633.64	-5,642.64	716.55	-102.93	718.03	3.00	0.00	-3.00
9,500.00	89.79	359.85	8,633.95	-5,642.95	800.85	-103.15	802.33	0.00	0.00	0.00
9,600.00	89.79	359.85	8,634.32	-5,643.32	900.85	-103.42	902.32	0.00	0.00	0.00
9,700.00	89.79	359.85	8,634.69	-5,643.69	1,000.85	-103.68	1,002.31	0.00	0.00	0.00
9,800.00	89.79	359.85	8,635.07	-5,644.07	1,100.85	-103.94	1,102.30	0.00	0.00	0.00
9,900.00	89.79	359.85	8,635.44	-5,644.44	1,200.85	-104.20	1,202.29	0.00	0.00	0.00
10,000.00	89.79	359.85	8,635.81	-5,644.81	1,300.84	-104.46	1,302.28	0.00	0.00	0.00
10,100.00	89.79	359.85	8,636.18	-5,645.18	1,400.84	-104.73	1,402.27	0.00	0.00	0.00
10,200.00	89.79	359.85	8,636.56	-5,645.56	1,500.84	-104.99	1,502.26	0.00	0.00	0.00
10,300.00	89.79	359.85	8,636.93	-5,645.93	1,600.84	-105.25	1,602.26	0.00	0.00	0.00
10,400.00	89.79	359.85	8,637.30	-5,646.30	1,700.84	-105.51	1,702.25	0.00	0.00	0.00
10,500.00	89.79	359.85	8,637.67	-5,646.67	1,800.84	-105.77	1,802.24	0.00	0.00	0.00
10,600.00	89.79	359.85	8,638.05	-5,647.05	1,900.84	-106.03	1,902.23	0.00	0.00	0.00
10,700.00	89.79	359.85	8,638.42	-5,647.42	2,000.84	-106.30	2,002.22	0.00	0.00	0.00
END OF TANGENT										
10,775.15	89.79	359.85	8,638.70	-5,647.70	2,075.99	-106.49	2,077.37	0.00	0.00	0.00
10,800.00	89.79	359.35	8,638.79	-5,647.79	2,100.84	-106.67	2,102.21	2.00	0.00	-2.00
10,900.00	89.79	357.35	8,639.16	-5,648.16	2,200.79	-109.54	2,202.20	2.00	0.00	-2.00
11,000.00	89.79	355.35	8,639.54	-5,648.54	2,300.58	-115.90	2,302.08	2.00	0.00	-2.00
11,100.00	89.79	353.35	8,639.91	-5,648.91	2,400.09	-125.74	2,401.72	2.00	0.00	-2.00
11,200.00	89.79	351.35	8,640.28	-5,649.28	2,499.19	-139.05	2,501.02	2.00	0.00	-2.00
EOT TO 350.06° AZ										
11,264.65	89.79	350.06	8,640.51	-5,649.51	2,562.99	-149.49	2,564.97	2.00	0.00	-2.00
11,300.00	89.79	350.77	8,640.64	-5,649.64	2,597.85	-155.37	2,599.91	2.00	0.00	2.00
11,400.00	89.79	352.77	8,641.01	-5,650.01	2,696.81	-169.69	2,699.08	2.00	0.00	2.00



Planning Report



Database:	Database 1	Local Co-ordinate Reference:	Well BONANZA 22/15 STATE COM 556H
Company:	MEWBOURNE OIL COMPANY	TVD Reference:	KBE @ 2991.00usft (PATT 267)
Project:	EDDY COUNTY, NEW MEXICO (NAD 83 - GRID)	MD Reference:	KBE @ 2991.00usft (PATT 267)
Site:	SEC. 22 T25S R28E	North Reference:	Grid
Well:	BONANZA 22/15 STATE COM 556H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #2		

Planned Survey

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	SS (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
11,500.00	89.79	354.77	8,641.38	-5,650.38	2,796.22	-180.55	2,798.64	2.00	0.00	2.00
11,600.00	89.79	356.77	8,641.75	-5,650.75	2,895.94	-187.93	2,898.46	2.00	0.00	2.00
11,700.00	89.79	358.77	8,642.11	-5,651.11	2,995.86	-191.83	2,998.43	2.00	0.00	2.00
EOT TO 359.85° AZ										
11,754.15	89.79	359.85	8,642.31	-5,651.31	3,050.00	-192.48	3,052.57	2.00	0.00	2.00
11,800.00	89.79	359.85	8,642.48	-5,651.48	3,095.85	-192.60	3,098.42	0.00	0.00	0.00
11,900.00	89.79	359.85	8,642.84	-5,651.84	3,195.85	-192.86	3,198.41	0.00	0.00	0.00
END OF TANGENT										
11,904.15	89.79	359.85	8,642.86	-5,651.86	3,200.00	-192.87	3,202.56	0.00	0.00	0.00
12,000.00	89.79	1.77	8,643.21	-5,652.21	3,295.84	-191.52	3,298.37	2.00	0.00	2.00
12,100.00	89.79	3.77	8,643.58	-5,652.58	3,395.71	-186.69	3,398.16	2.00	0.00	2.00
12,200.00	89.79	5.77	8,643.95	-5,652.95	3,495.36	-178.38	3,497.67	2.00	0.00	2.00
12,300.00	89.79	7.77	8,644.32	-5,653.32	3,594.66	-166.60	3,596.78	2.00	0.00	2.00
EOT TO 9.65° AZ										
12,394.14	89.79	9.65	8,644.67	-5,653.67	3,687.71	-152.35	3,689.60	2.00	0.00	2.00
12,400.00	89.79	9.53	8,644.69	-5,653.69	3,693.49	-151.37	3,695.36	2.00	0.00	-2.00
12,500.00	89.78	7.53	8,645.07	-5,654.07	3,792.37	-136.53	3,794.01	2.00	0.00	-2.00
12,600.00	89.78	5.53	8,645.44	-5,654.44	3,891.72	-125.16	3,893.17	2.00	0.00	-2.00
12,700.00	89.78	3.53	8,645.82	-5,654.82	3,991.40	-117.25	3,992.72	2.00	0.00	-2.00
12,800.00	89.78	1.53	8,646.20	-5,655.20	4,091.30	-112.83	4,092.54	2.00	0.00	-2.00
EOT TO 359.85° AZ										
12,884.33	89.79	359.85	8,646.51	-5,655.51	4,175.62	-111.82	4,176.83	2.00	0.00	-2.00
12,900.00	89.79	359.85	8,646.57	-5,655.57	4,191.29	-111.86	4,192.50	0.00	0.00	0.00
13,000.00	89.79	359.85	8,646.95	-5,655.95	4,291.29	-112.13	4,292.49	0.00	0.00	0.00
13,100.00	89.79	359.85	8,647.32	-5,656.32	4,391.29	-112.40	4,392.49	0.00	0.00	0.00
13,200.00	89.79	359.85	8,647.70	-5,656.70	4,491.28	-112.67	4,492.48	0.00	0.00	0.00
13,300.00	89.79	359.85	8,648.07	-5,657.07	4,591.28	-112.94	4,592.47	0.00	0.00	0.00
13,400.00	89.79	359.85	8,648.44	-5,657.44	4,691.28	-113.20	4,692.46	0.00	0.00	0.00
13,500.00	89.79	359.85	8,648.82	-5,657.82	4,791.28	-113.47	4,792.45	0.00	0.00	0.00
13,600.00	89.79	359.85	8,649.19	-5,658.19	4,891.28	-113.74	4,892.44	0.00	0.00	0.00
13,700.00	89.79	359.85	8,649.57	-5,658.57	4,991.28	-114.01	4,992.43	0.00	0.00	0.00
13,800.00	89.79	359.85	8,649.94	-5,658.94	5,091.28	-114.28	5,092.43	0.00	0.00	0.00
13,900.00	89.79	359.85	8,650.32	-5,659.32	5,191.28	-114.55	5,192.42	0.00	0.00	0.00
14,000.00	89.79	359.85	8,650.69	-5,659.69	5,291.28	-114.82	5,292.41	0.00	0.00	0.00
14,100.00	89.79	359.85	8,651.07	-5,660.07	5,391.27	-115.08	5,392.40	0.00	0.00	0.00
14,200.00	89.79	359.85	8,651.44	-5,660.44	5,491.27	-115.35	5,492.39	0.00	0.00	0.00
14,300.00	89.79	359.85	8,651.82	-5,660.82	5,591.27	-115.62	5,592.38	0.00	0.00	0.00
14,400.00	89.79	359.85	8,652.19	-5,661.19	5,691.27	-115.89	5,692.38	0.00	0.00	0.00
14,500.00	89.79	359.85	8,652.57	-5,661.57	5,791.27	-116.16	5,792.37	0.00	0.00	0.00
14,600.00	89.79	359.85	8,652.94	-5,661.94	5,891.27	-116.43	5,892.36	0.00	0.00	0.00
14,700.00	89.79	359.85	8,653.32	-5,662.32	5,991.27	-116.70	5,992.35	0.00	0.00	0.00
14,800.00	89.79	359.85	8,653.69	-5,662.69	6,091.27	-116.96	6,092.34	0.00	0.00	0.00
14,900.00	89.79	359.85	8,654.07	-5,663.07	6,191.27	-117.23	6,192.33	0.00	0.00	0.00
15,000.00	89.79	359.85	8,654.44	-5,663.44	6,291.26	-117.50	6,292.32	0.00	0.00	0.00
15,100.00	89.79	359.85	8,654.82	-5,663.82	6,391.26	-117.77	6,392.32	0.00	0.00	0.00
15,200.00	89.79	359.85	8,655.19	-5,664.19	6,491.26	-118.04	6,492.31	0.00	0.00	0.00
15,300.00	89.79	359.85	8,655.57	-5,664.57	6,591.26	-118.31	6,592.30	0.00	0.00	0.00
15,400.00	89.79	359.85	8,655.94	-5,664.94	6,691.26	-118.58	6,692.29	0.00	0.00	0.00
15,500.00	89.79	359.85	8,656.32	-5,665.32	6,791.26	-118.84	6,792.28	0.00	0.00	0.00
15,600.00	89.79	359.85	8,656.69	-5,665.69	6,891.26	-119.11	6,892.27	0.00	0.00	0.00
15,700.00	89.79	359.85	8,657.07	-5,666.07	6,991.26	-119.38	6,992.26	0.00	0.00	0.00
15,800.00	89.79	359.85	8,657.44	-5,666.44	7,091.26	-119.65	7,092.26	0.00	0.00	0.00
15,900.00	89.79	359.85	8,657.82	-5,666.82	7,191.26	-119.92	7,192.25	0.00	0.00	0.00



Planning Report



Database:	Database 1	Local Co-ordinate Reference:	Well BONANZA 22/15 STATE COM 556H
Company:	MEWBOURNE OIL COMPANY	TVD Reference:	KBE @ 2991.00usft (PATT 267)
Project:	EDDY COUNTY, NEW MEXICO (NAD 83 - GRID)	MD Reference:	KBE @ 2991.00usft (PATT 267)
Site:	SEC. 22 T25S R28E	North Reference:	Grid
Well:	BONANZA 22/15 STATE COM 556H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #2		

Planned Survey

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	SS (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
16,000.00	89.79	359.85	8,658.19	-5,667.19	7,291.25	-120.19	7,292.24	0.00	0.00	0.00
16,100.00	89.79	359.85	8,658.57	-5,667.57	7,391.25	-120.46	7,392.23	0.00	0.00	0.00
16,200.00	89.79	359.85	8,658.94	-5,667.94	7,491.25	-120.72	7,492.22	0.00	0.00	0.00
16,300.00	89.79	359.85	8,659.32	-5,668.32	7,591.25	-120.99	7,592.21	0.00	0.00	0.00
16,400.00	89.79	359.85	8,659.69	-5,668.69	7,691.25	-121.26	7,692.20	0.00	0.00	0.00
16,500.00	89.79	359.85	8,660.07	-5,669.07	7,791.25	-121.53	7,792.20	0.00	0.00	0.00
16,600.00	89.79	359.85	8,660.44	-5,669.44	7,891.25	-121.80	7,892.19	0.00	0.00	0.00
16,700.00	89.79	359.85	8,660.81	-5,669.81	7,991.25	-122.07	7,992.18	0.00	0.00	0.00
BHL *NEW*: 100ft FNL & 1661ft FEL of Sec 15										
16,749.43	89.79	359.85	8,661.00	-5,670.00	8,040.68	-122.20	8,041.60	0.00	0.00	0.00

Formations

MD (usft)	TVD (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
974.09	973.00	SALT TOP		0.00	
2,360.69	2,352.00	SALT BASE		0.00	
2,562.80	2,553.00	DELAWARE		0.00	
2,590.95	2,581.00	BELL CANYON		0.00	
3,485.85	3,471.00	CHERRY CANYON		0.00	
3,631.65	3,616.00	MANZANITA MARKER		0.00	
4,725.42	4,705.00	BRUSHY CANYON		0.00	
6,338.42	6,318.00	BONE SPRING		0.00	
7,226.42	7,206.00	1ST BONE SPRING SAND		0.00	
7,987.42	7,967.00	2ND BONE SPRING SAND		0.00	

Plan Annotations

MD (usft)	TVD (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
0.00	0.00	0.00	0.00	SHL: 2480ft FSL & 1560ft FEL of Sec 22
575.00	575.00	0.00	0.00	START NUDGE (2°/100ft)
875.00	874.45	-15.69	0.00	EOB TO 6° INC
1,130.67	1,128.72	-39.31	-10.74	EOT TO 228.92° AZ
4,401.78	4,381.91	-264.00	-268.47	END OF TANGENT
4,701.78	4,681.36	-274.31	-280.30	EOD TO VERTICAL
8,079.44	8,059.02	-274.31	-280.30	KOP (10°/100ft)
8,977.36	8,632.00	281.92	-151.88	LP *NEW*: 2540ft FNL & 1711ft FEL of Sec 22
9,415.70	8,633.64	716.55	-102.93	EOT TO 359.85° AZ
10,775.15	8,638.70	2,075.99	-106.49	END OF TANGENT
11,264.65	8,640.51	2,562.99	-149.49	EOT TO 350.06° AZ
11,754.15	8,642.31	3,050.00	-192.48	EOT TO 359.85° AZ
11,904.15	8,642.86	3,200.00	-192.87	END OF TANGENT
12,394.14	8,644.67	3,687.71	-152.35	EOT TO 9.65° AZ
12,884.33	8,646.51	4,175.62	-111.82	EOT TO 359.85° AZ
16,749.43	8,661.00	8,040.68	-122.20	BHL *NEW*: 100ft FNL & 1661ft FEL of Sec 15



Mewbourne Oil Co.

BOP Break Testing Variance

Mewbourne Oil Company requests a variance from the minimum standards for well control equipment testing of 43 CFR 3172 to allow a testing schedule of the blow out preventer (BOP) and blow out prevention equipment (BOPE) along with batch drilling & offline cementing operations. Modern rig upgrades which facilitate pad drilling allow the BOP stack to be moved between wells on a multi-well pad without breaking any BOP stack components apart. Widespread use of these technologies has led to break testing BOPE being endorsed as safe and reliable. American Petroleum Institute (API) best practices are frequently used by regulators to develop their regulations. API Standard 53, *Well Control Equipment Systems for Drilling Wells* (5th Ed., Dec. 2018) Section 5.3.7.1 states "A pressure test of the pressure containing component shall be performed following the disconnection or repair, limited to the affected component."

Procedures

1. Full BOPE test at first installation on the pad.
 - Full BOPE test at least every 21 days.
 - Function test BOP elements per 43 CFR 3172.
 - Contact the BLM if a well control event occurs.
2. After the well section is secured and the well is confirmed to be static, the BOP will be disconnected from the wellhead and walked with the rig to another well on the pad. Two breaks on the BOPE will be made (Fig. 1).
 - Connection between the flex line and the HCR valve
 - Connection between the wellhead and the BOP quick connect (Fig. 5 & 6).
3. A capping flange will be installed after cementing per wellhead vendor procedure & casing pressure will be monitored via wellhead valve.
4. The BOP will be removed and carried by a hydraulic carrier (Fig. 3 & 4).
5. The rig will then walk to the next well.
6. Confirm that the well is static and remove the capping flange.
7. The connection between the flex line and HCR valve and the connection between the wellhead and the BOP quick connect will be reconnected.
8. Install a test plug into the wellhead.
9. A test will then be conducted against the upper pipe rams and choke, testing both breaks (Fig. 1 & 2).
10. The test will be held at 250 psi low and to the high value submitted in the APD, not to exceed 5000 psi.
11. The annular, blind rams and lower pipe rams will then be function tested.
12. If a pad consists of three or more wells, steps 4 through 11 will be repeated.



13. A break test will only be conducted if the intermediate section can be drilled and cased within 21 days of the last full BOPE test.

Barriers

Before Nipple Down:

- Floats in casing
- Kill weight fluid in casing
- Kill weight fluid in annulus
- Solid body mandrel and/or packoff

After Nipple Down:

- Floats in casing
- Kill weight fluid in casing
- Kill weight fluid in annulus
- Solid body mandrel and/or packoff
- Offline cementing tool and/or cement head
- Capping flange after cementing

Summary

A variance is requested to only test broken pressure seals on the BOPE when moving between wells on a multi-well pad if the following conditions are met:

- A full BOPE test is conducted on the first well on the pad. API Standard 53 requires testing annular BOP to 70% of RWP or 100% of MASP, whichever is greater.
- If the first well on the pad is not the well with the deepest intermediate section, a full BOPE test will also be performed when moving to a deeper well.
- The hole section being drilled has a MASP under 5000 psi.
- If a well control event occurs, Mewbourne will contact BLM for permission to continue break testing.
- If significant (>50%) losses occur, full BOPE testing will be required going forward.
- Full BOPE test will be required prior to drilling the production hole.

While walking the rig, the BOP stack will be secured via hydraulic winch or hydraulic carrier. A full BOPE test will be performed at least every 21 days.

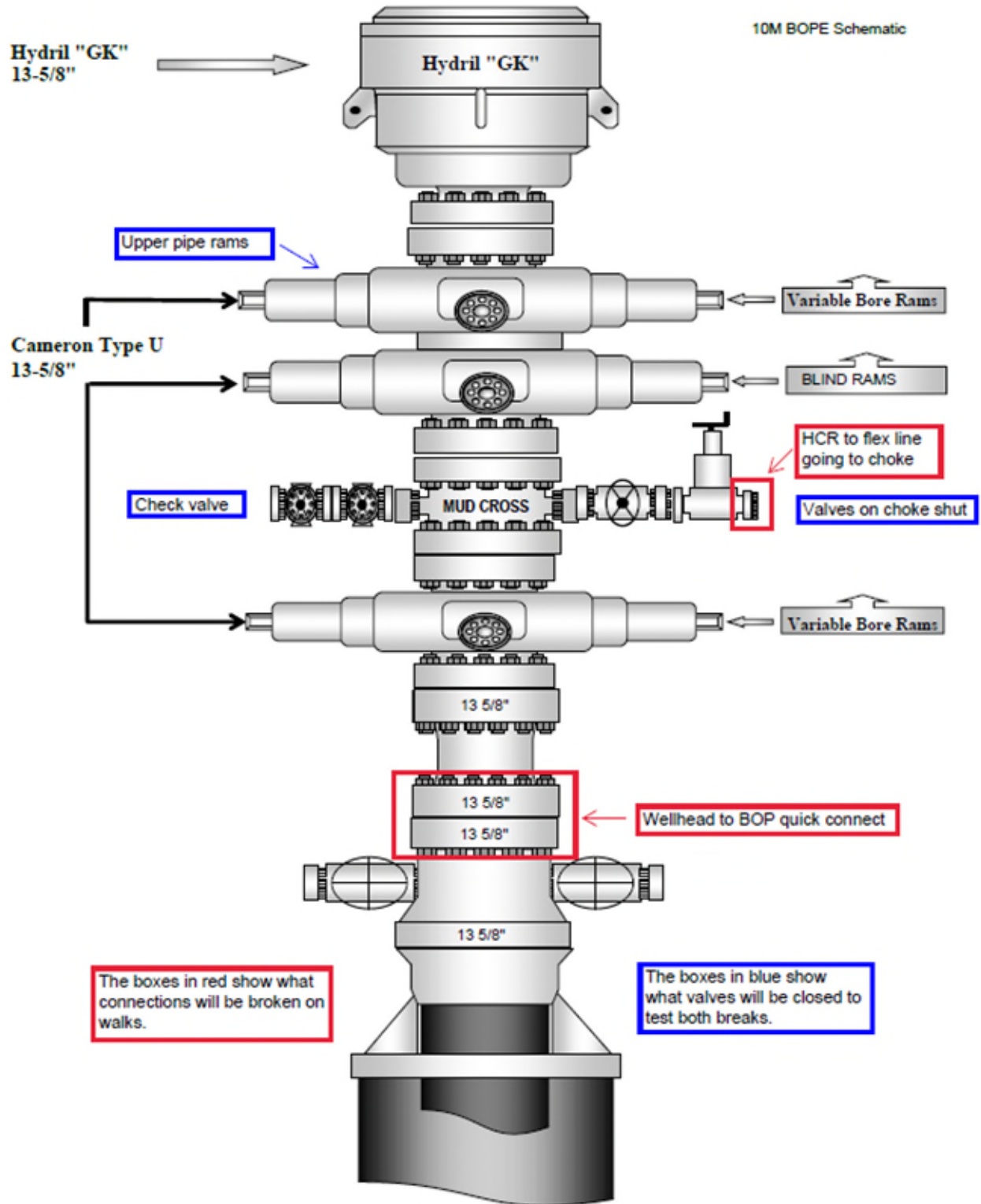


Figure 1. BOP diagram



5M BOPE & Closed Loop Equipment Schematic

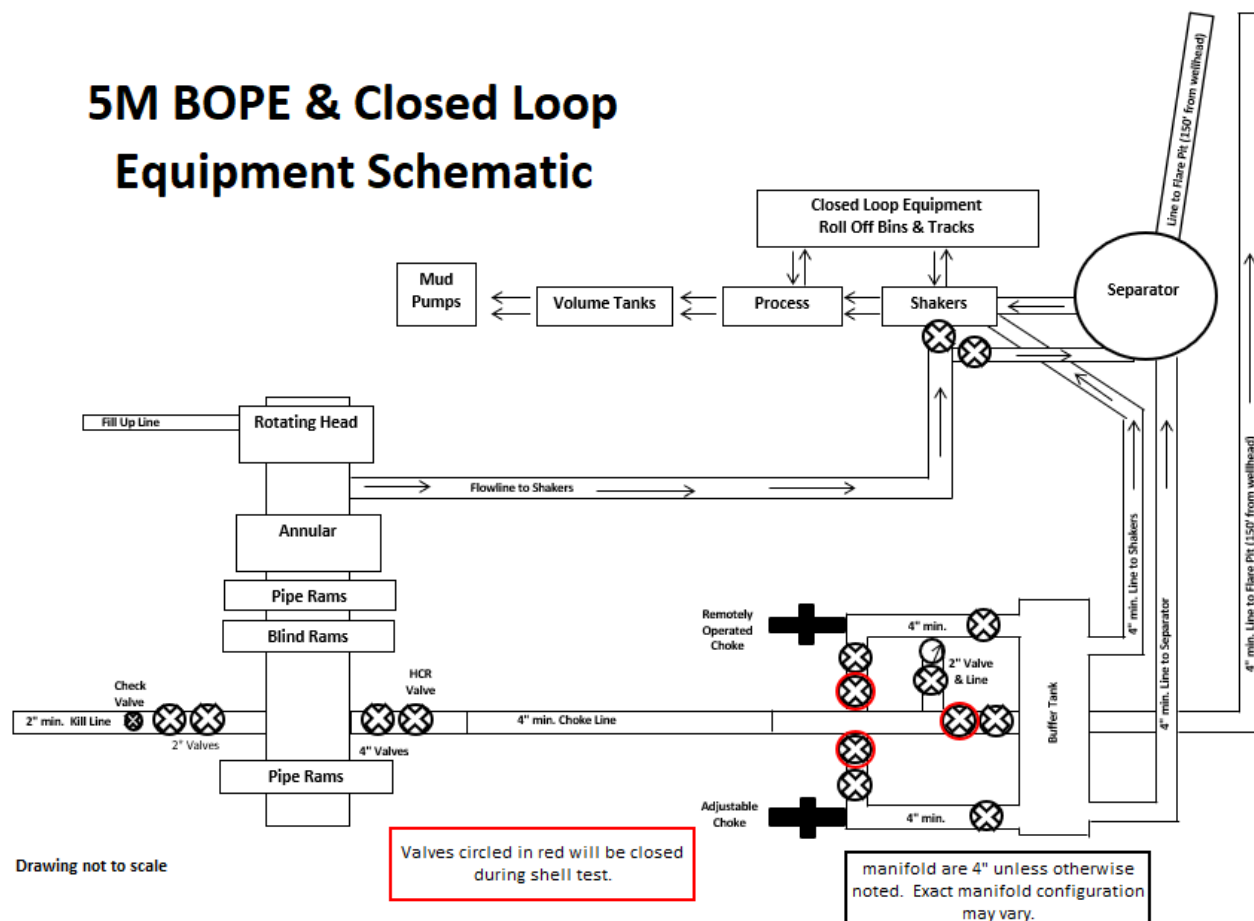


Figure 2. BOPE diagram

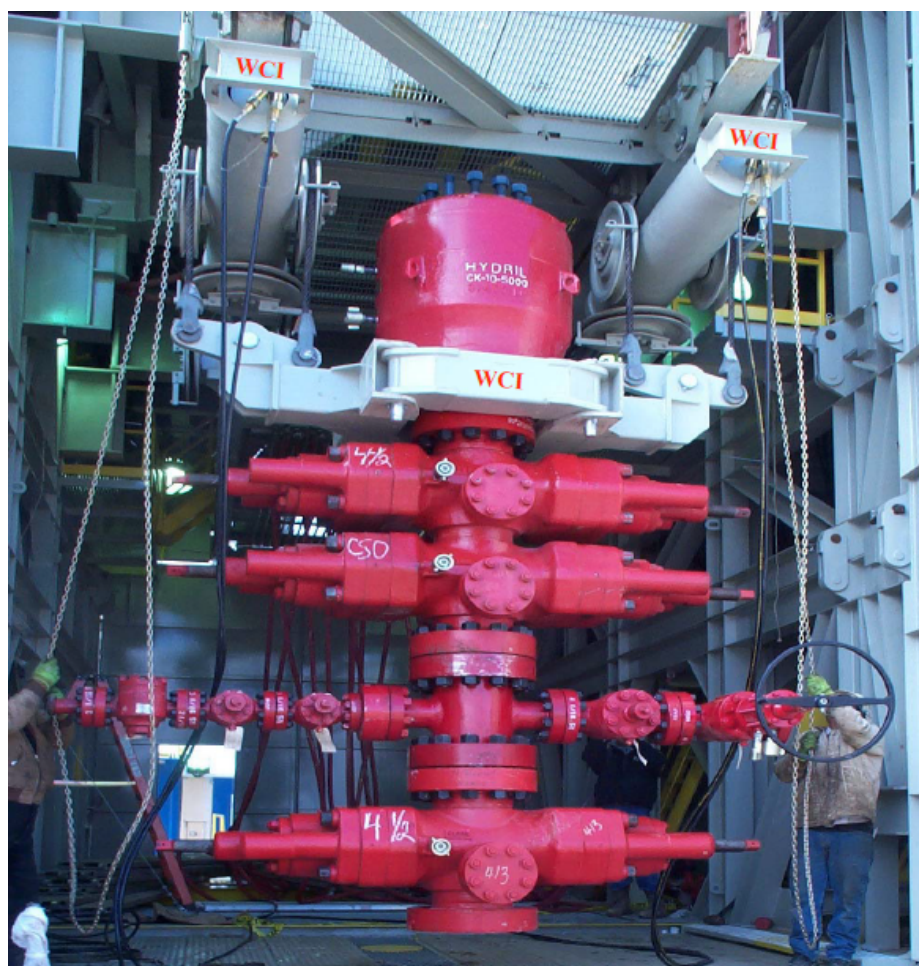


Figure 3. BOP handling system



Figure 4. BOP handling system

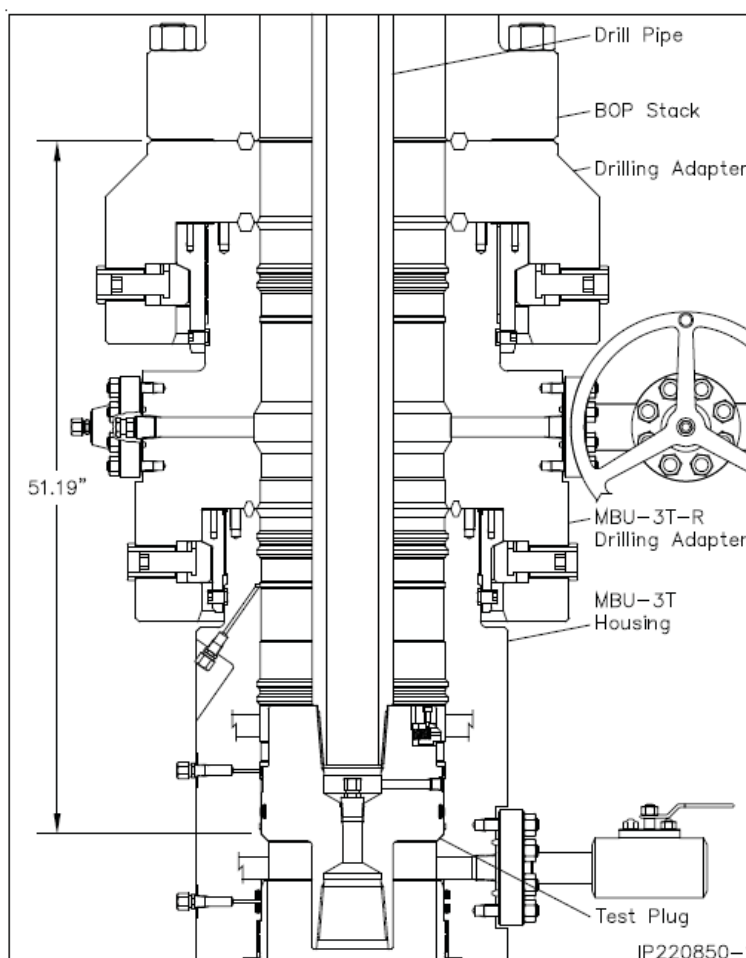


Figure 5. Cactus 5M wellhead with BOP quick connect

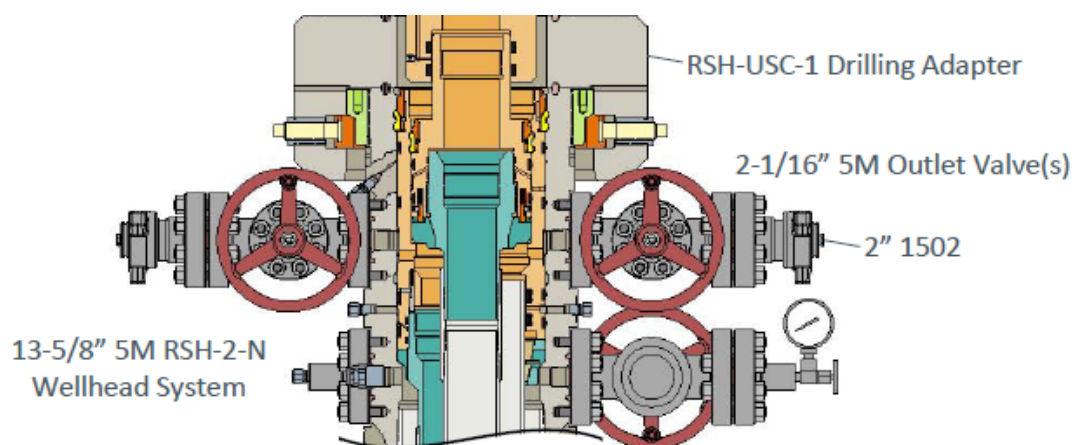


Figure 6. Vault 5M wellhead with BOP quick connect



Mewbourne Oil Co.

Surface & Intermediate Offline Cementing Variance

Mewbourne Oil Company requests a variance to perform offline cementing for surface and intermediate casing strings with the following conditions:

- Offline cementing will not be performed on production casing.
- Offline cementing will not be performed on a hole section with MASP > 5000 psi.
- Offline cementing will not be performed concurrently with offset drilling.

Surface Casing Order of Operations:

1. Run 13 3/8" surface casing as per normal operations (TPGS and float collar).
2. Perform negative pressure test to confirm integrity of float equipment while running casing.
3. Confirm well is static.
4. Make up 13 5/8" wellhead or wellhead landing ring assembly and land on 20" conductor.
5. Fill pipe, circulate casing capacity and confirm float(s) are still holding.
6. Confirm well is static.
7. Back out landing joint and pull to rig floor. Lay down landing joint.
8. Walk rig to next well on pad with cement crew standing by to rig up.
9. Make up offline cement tool with forklift per wellhead manufacturer (Fig. 1 & 2).
10. Make up cement head on top of offline cement tool with forklift.
11. Commence cement operations.
12. If cement circulates, confirm well is static and proceed to step 16.
13. If cement does not circulate, notify the appropriate BLM office, wait a minimum of six hours, and run a temperature survey to determine the top of cement.
14. Use 1" pipe for remedial cement job until the surface casing is cemented to surface.
15. Confirm well is static.
16. Once cement job is complete, the cement head and offline cementing tool are removed. The wellhead technician returns to cellar to install wellhead/valves.
17. Install wellhead capping flange.

Barriers

Before Walk:

- Float(s) in casing
- Kill weight fluid in casing
- Kill weight fluid in annulus

**After Walk:**

- Float(s) in casing
- Kill weight fluid in casing
- Kill weight fluid in annulus
- Offline cementing tool tested to 5000 psi and cement head
- Capping flange after cementing

20" Surface Casing Order of Operations (4 string area):

1. Run 20" surface casing as per normal operations (TPGS and float collar).
2. Perform negative pressure test to confirm integrity of float equipment while running casing.
3. Fill pipe, circulate casing capacity and confirm float(s) are still holding.
4. Confirm well is static.
5. Back out landing joint and pull to rig floor. Lay down landing joint.
6. Make up cement head.
7. Walk rig to next well on pad with cement crew standing by to rig up.
8. Commence cement operations.
9. If cement circulates, confirm well is static and proceed to step 13.
10. If cement does not circulate, notify the appropriate BLM office, wait a minimum of six hours, and run a temperature survey to determine the top of cement.
11. Use 1" pipe for remedial cement job until the surface casing is cemented to surface.
12. Confirm well is static.
13. Once cement job is complete, remove cement head and install cap.

Barriers**Before Walk:**

- Float(s) in casing
- Kill weight fluid in casing
- Kill weight fluid in annulus
- Cement Head

After Walk:

- Float(s) in casing
- Kill weight fluid in casing
- Kill weight fluid in annulus
- Cement head
- Capping flange after cementing



Intermediate Casing Order of Operations:

1. Run casing as per normal operations (float shoe and float collar).
2. Perform negative pressure test to confirm integrity of float equipment while running casing.
3. Confirm well is static (if running SBM).
4. Land casing.
5. Fill pipe, circulate casing capacity and confirm floats are still holding.
6. Confirm well is static.
7. Back out landing joint and pull to rig floor. Lay down landing joint. Install packoff & test.
8. Nipple down BOP.
9. Walk rig to next well on pad with cement crew standing by to rig up.
10. Make up offline cement tool using forklift per wellhead manufacturer (Fig. 3 - 8).
11. Make up cement head on top of offline cement tool.
12. Commence cement operations.
13. If cement circulates, confirm well is static and proceed to step 16.
14. If cement does not circulate (when required), notify the appropriate BLM office, wait a minimum of six hours, and run a temperature survey to determine the top of cement.
15. Pump remedial cement job if required.
16. Confirm well is static.
17. Remove cement head and offline cementing tool.
18. Install wellhead capping flange and test.

Barriers

Before Nipple Down:

- Floats in casing
- Kill weight fluid in casing
- Kill weight fluid in annulus
- Solid body mandrel and/or packoff

After Nipple Down:

- Floats in casing
- Kill weight fluid in casing
- Kill weight fluid in annulus
- Solid body mandrel and/or packoff
- Offline cementing tool tested to 5000 psi and cement head
- Capping flange after cementing

**Risks:**

- Pressure build up in annulus before cementing
 - Contact BLM if a well control event occurs.
 - Rig up 3rd party pump or rig pumps to pump down casing and kill well.
 - Returns will be taken through the wellhead valves to a choke manifold (Fig 9 & 10).
 - Well could also be killed through the wellhead valves down the annulus.

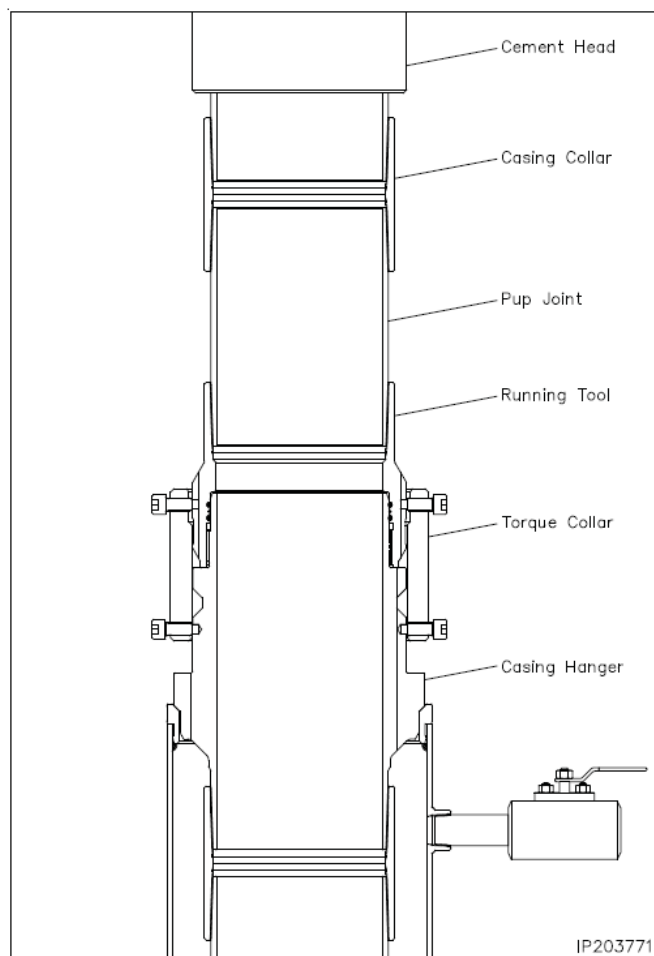


Figure 1. Cactus 13 3/8" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 13 3/8" pup joint and casing.

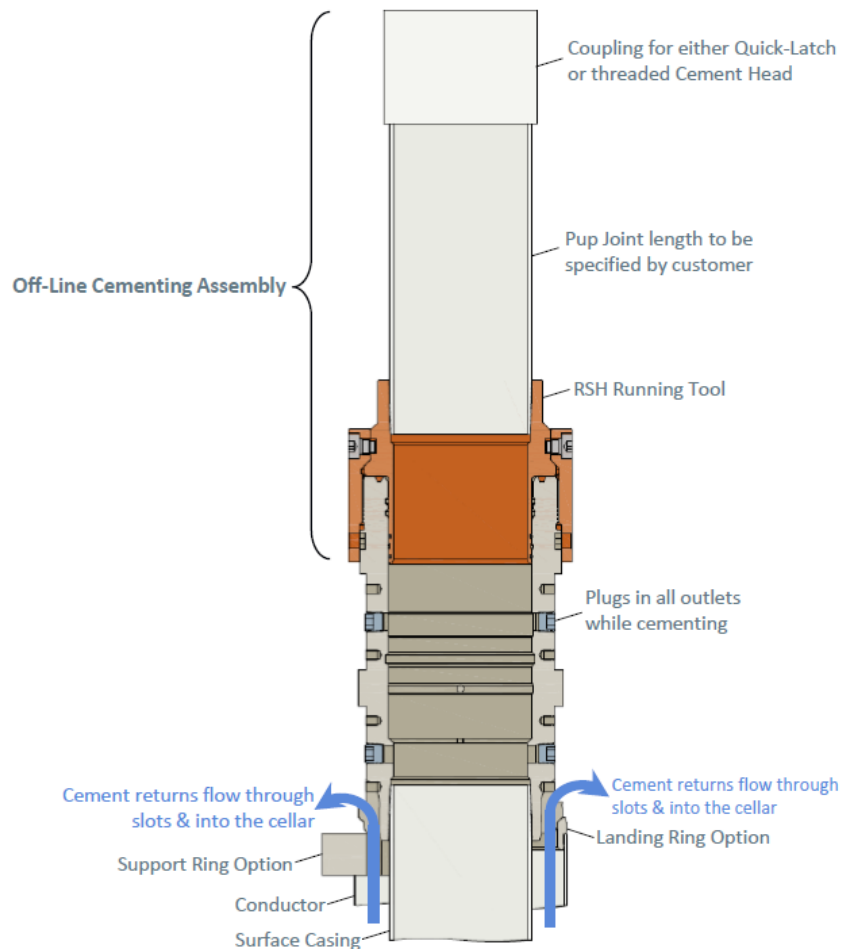


Figure 2. Vault 13 3/8" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 13 3/8" pup joint and casing.

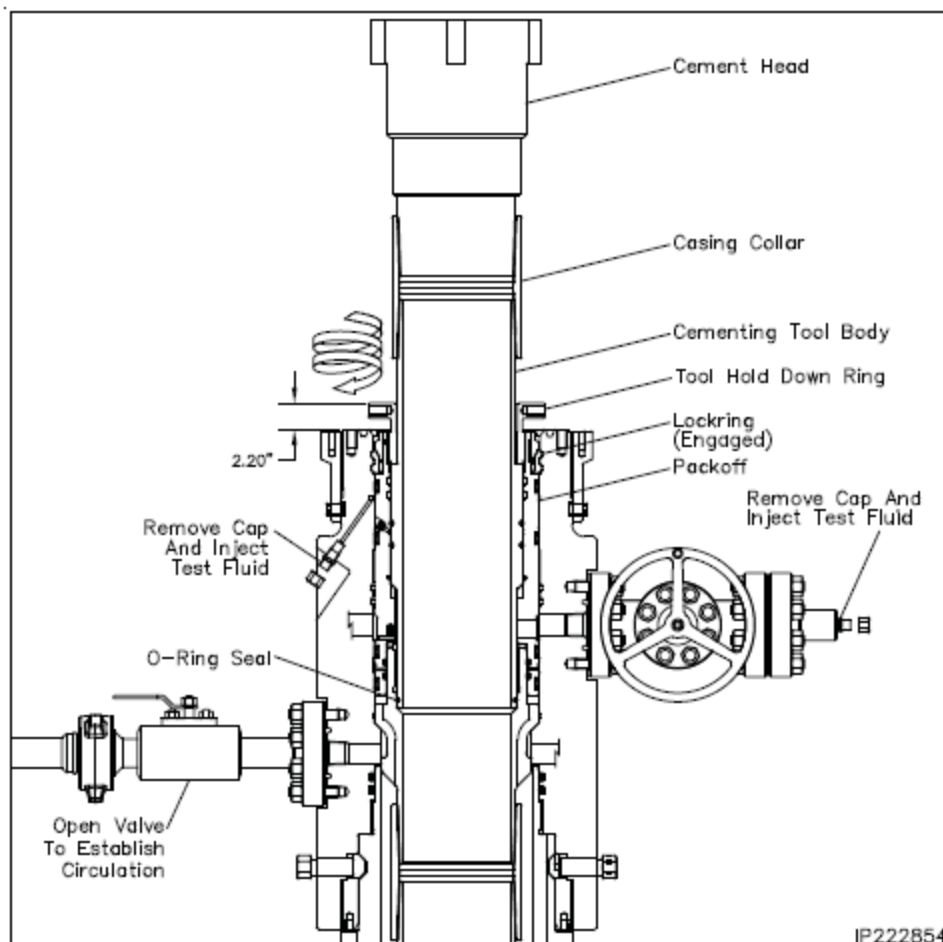


Figure 3. Cactus 9 5/8" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 9 5/8" pup joint and casing.

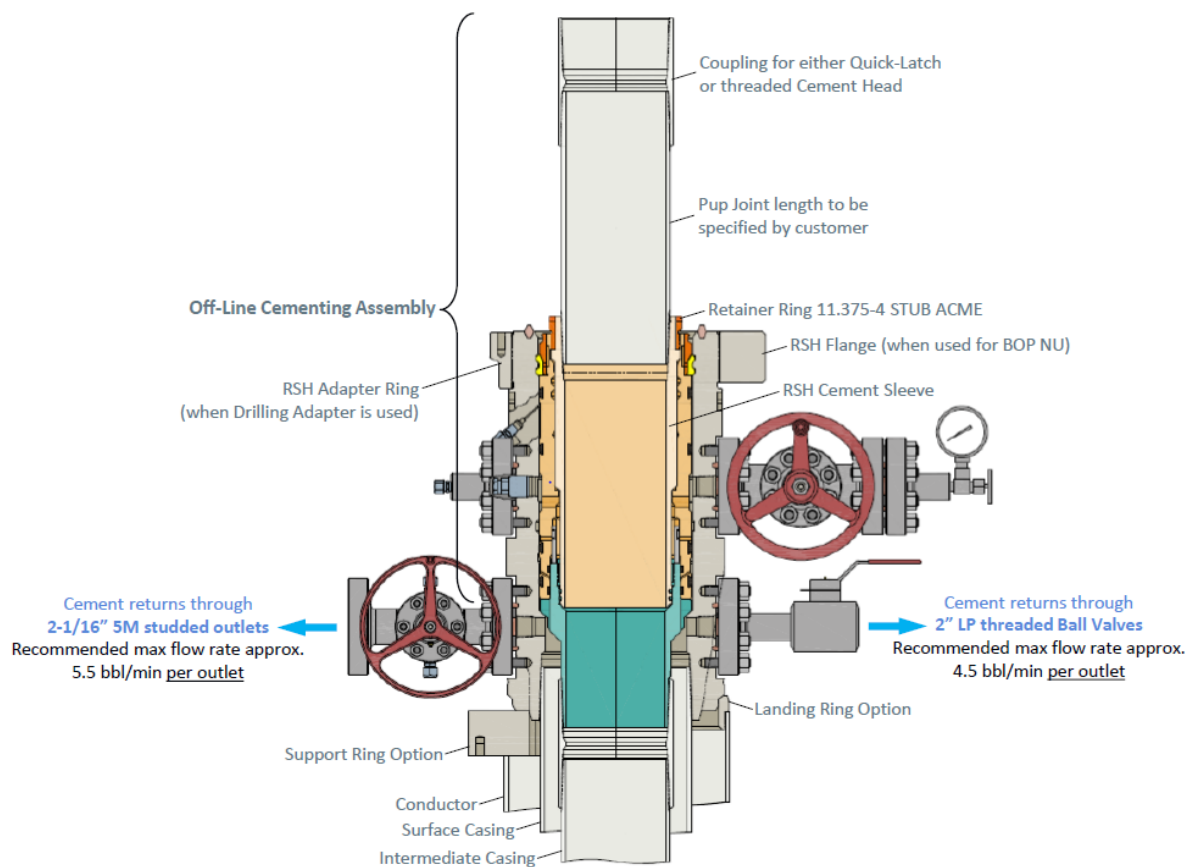


Figure 4. Vault 9 5/8" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 9 5/8" pup joint and casing.

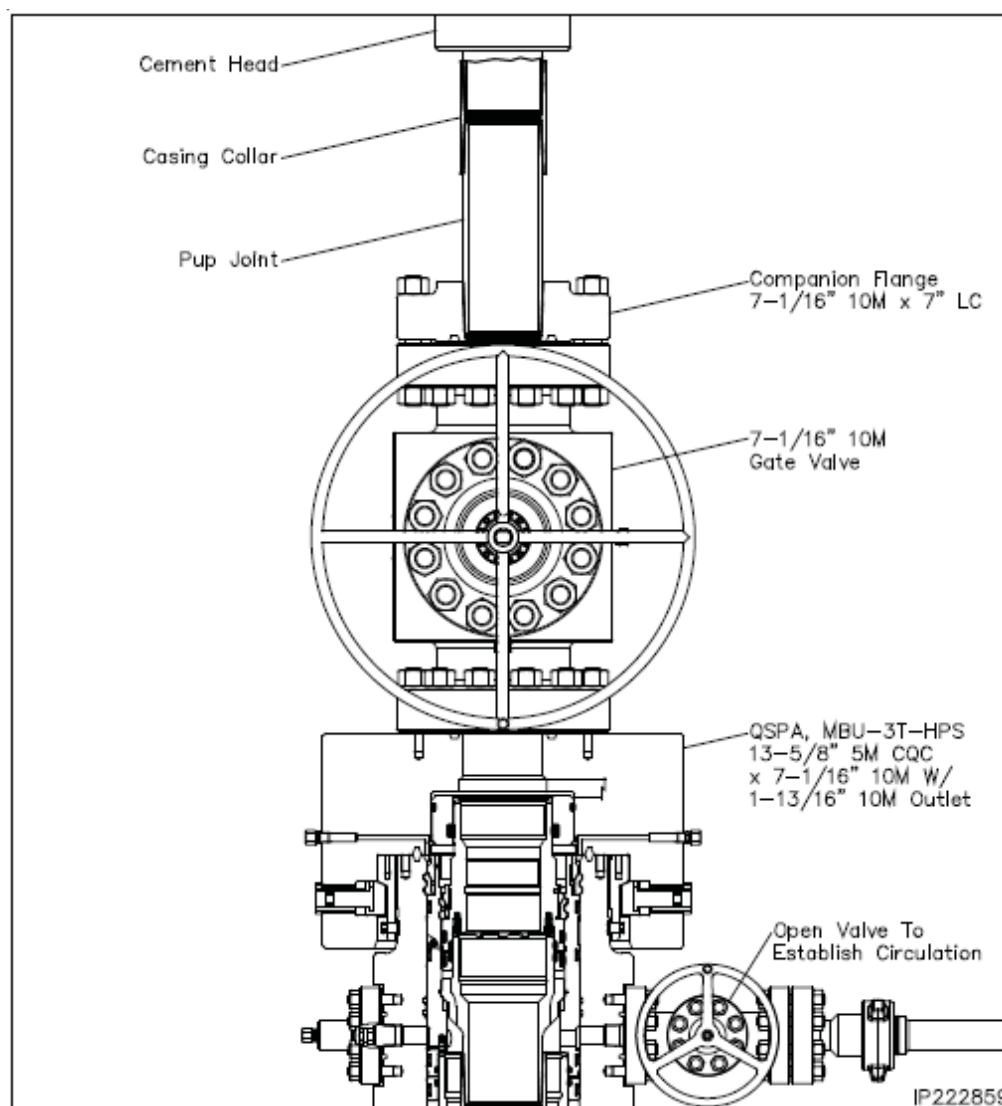


Figure 5. Cactus 7" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 7" pup joint and casing.

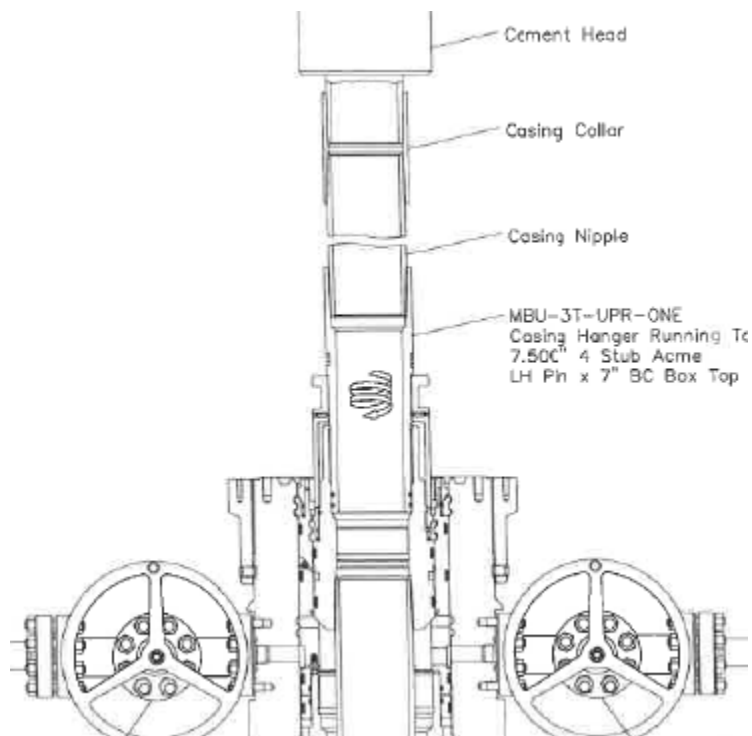


Figure 6. Cactus 7" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 7" pup joint and casing.

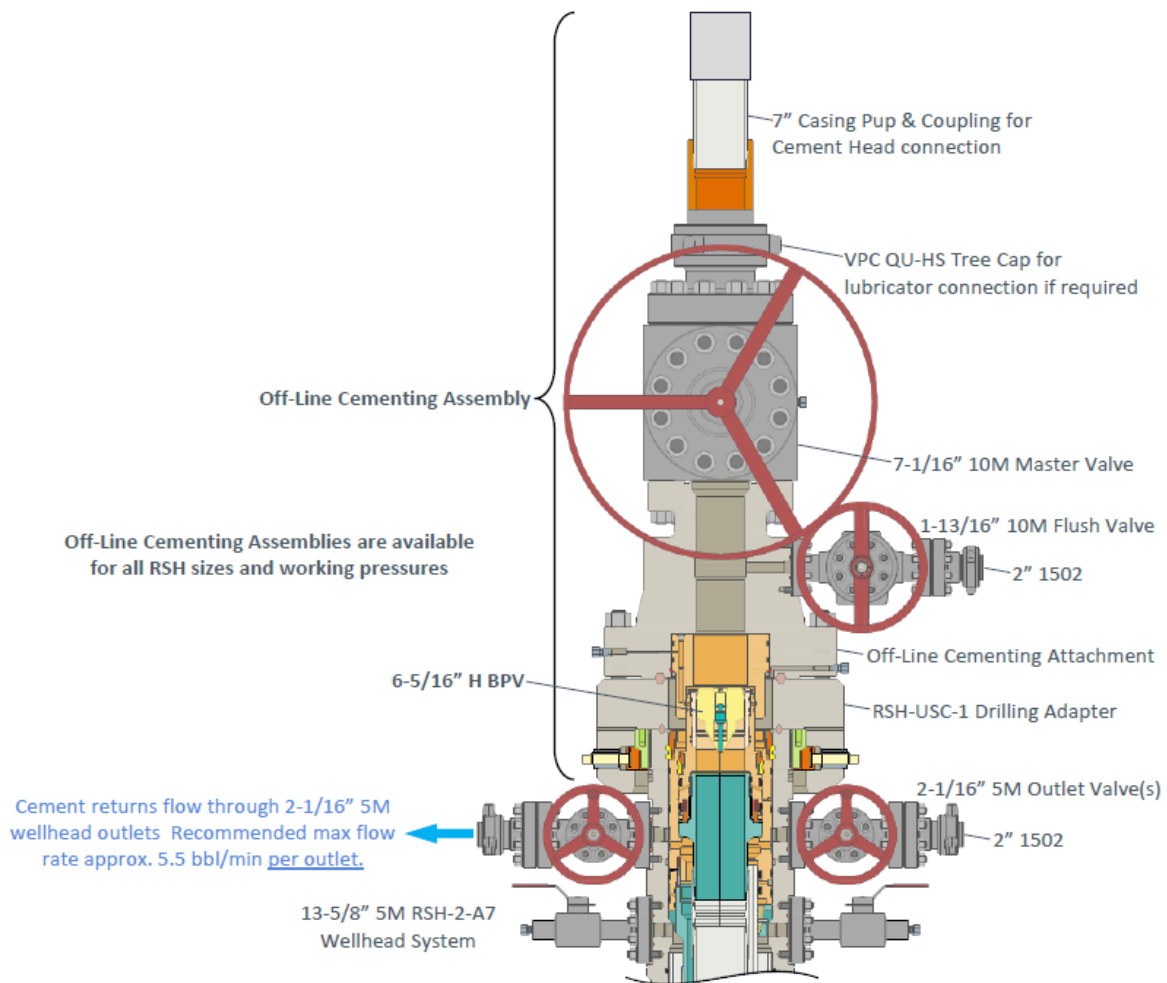


Figure 7. Vault 7" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 7" pup joint and casing.

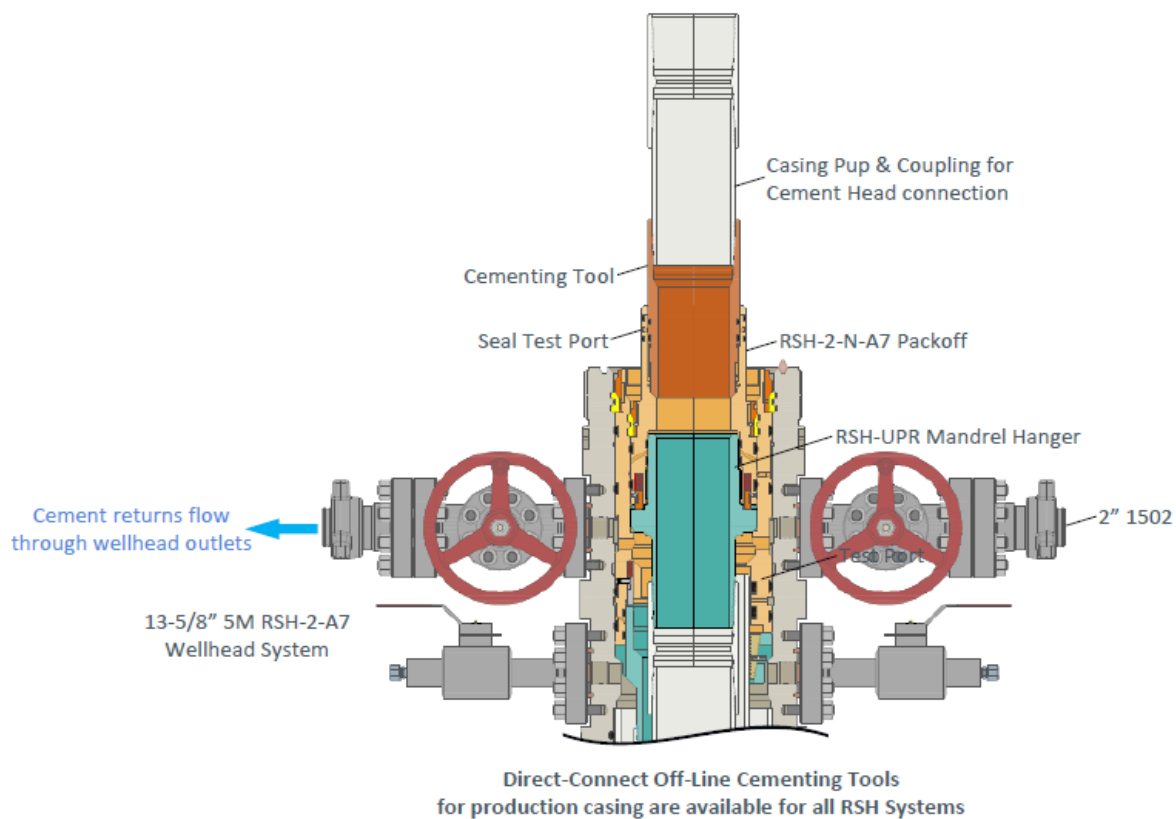


Figure 8. Vault 7" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 7" pup joint and casing.

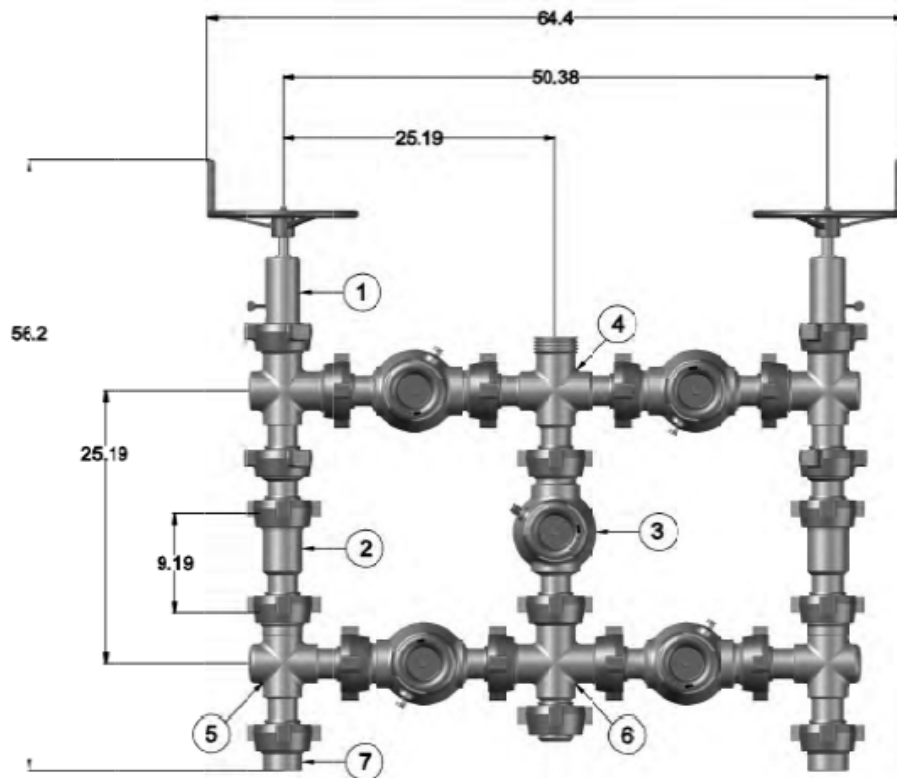


Figure 9. Five valve 15k choke manifold.

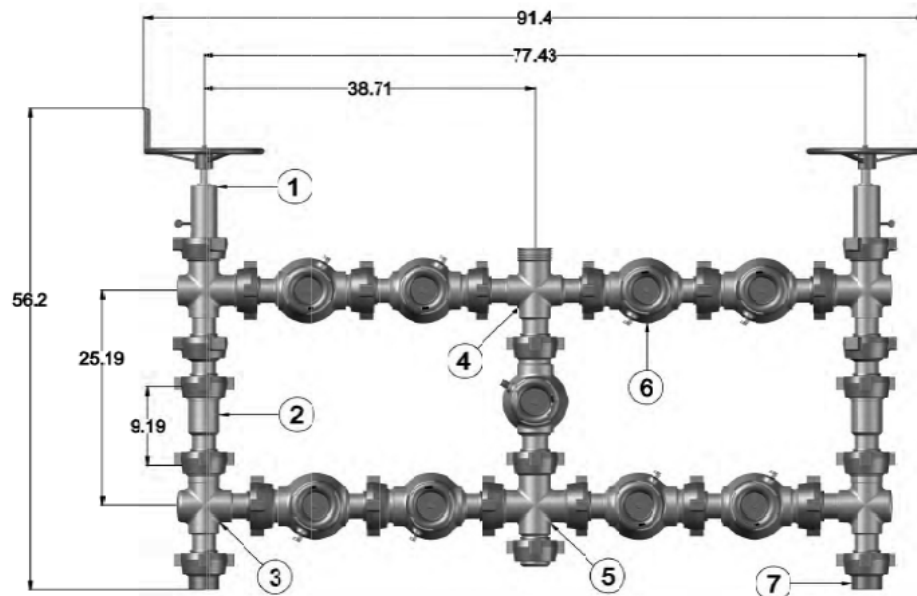


Figure 10. Nine valve 15k choke manifold.

HOURLY GAS VOLUME STATEMENT

July 29, 2024

Meter #: 67699875
Name: LAKEWOOD 28 FED COM CTB TANK FL TM

Pressure Base:	14.730 psia	Meter Status:	Active	CO2	N2	C1	C2	C3	IC4	NC4	IC5
Temperature Base:	60.00 °F	Contract Hr.:	Midnight	0.000	0.000	100.000	0.000	0.000	0.000	0.000	0.000
Atmos Pressure:	14.730 psi	Full Wellstream:		NC5	neo	C6	C7	C8	C9	C10	
Calc Method:	AGA7	WV Technique:		0.000		0.000	0.000	0.000	0.000	0.000	
Z Method:	AGA-8 Detail (1992)	WV Method:		Ar	CO	H2	O2	He	H2O	H2S	H2S ppm
Meter Size:	6.0650 in	HV Cond:	Wet	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
Press. Comp.:	No	Meter Type:	EFM								
Temp. Comp.:	No	Interval:	1 Hour								

Hour	Pulses (Counts)	Pressure (psia)	Temp. (°F)	Raw Volume (Mcf)	Relative Density	K-Factor (pulses/ Mcf)	Volume (Mcf)	Heating Value (Btu/scf)	Energy (MMBtu)	Edited
0	9	2.27	83.94	9	0.6000	1,000.0000	9	1000.00	9	No
1	8	2.14	82.41	8	0.6000	1,000.0000	9	1000.00	9	No
2	10	2.26	82.33	10	0.6000	1,000.0000	9	1000.00	9	No
3	9	2.21	81.64	9	0.6000	1,000.0000	9	1000.00	9	No
4	5	2.86	79.36	5	0.6000	1,000.0000	6	1000.00	6	No
5	7	2.35	78.83	7	0.6000	1,000.0000	7	1000.00	7	No
6	8	2.09	78.47	8	0.6000	1,000.0000	8	1000.00	8	No
7	10	2.19	82.05	10	0.6000	1,000.0000	10	1000.00	10	No
8	9	2.19	87.67	9	0.6000	1,000.0000	9	1000.00	9	No
9	4	3.14	93.24	4	0.6000	1,000.0000	4	1000.00	4	No
10	5	2.59	99.18	5	0.6000	1,000.0000	6	1000.00	6	No
11	1	2.38	104.80	1	0.6000	1,000.0000	1	1000.00	1	No
12	4	2.32	108.14	4	0.6000	1,000.0000	4	1000.00	4	No
13	0	2.70	116.16	0	0.6000	1,000.0000	0	1000.00	0	No
14	0	2.40	119.25	0	0.6000	1,000.0000	0	1000.00	0	No
15	0	2.07	122.51	0	0.6000	1,000.0000	0	1000.00	0	No
16	0	2.52	119.21	0	0.6000	1,000.0000	0	1000.00	0	No
17	0	2.22	116.01	0	0.6000	1,000.0000	0	1000.00	0	No
18	0	2.02	109.24	0	0.6000	1,000.0000	0	1000.00	0	No
19	0	2.49	100.68	0	0.6000	1,000.0000	0	1000.00	0	No
20	0	2.28	92.95	0	0.6000	1,000.0000	0	1000.00	0	No
21	0	2.08	89.17	0	0.6000	1,000.0000	0	1000.00	0	No
22	0	2.29	86.48	0	0.6000	1,000.0000	0	1000.00	0	No
23	0	1.98	84.37	0	0.6000	1,000.0000	0	1000.00	0	No
Total	91	2.33	85.16	91	0.6000		91		91	