

OCD-ARTESIA

ATS-10-610

FORM APPROVED
OMB No. 1004-0136
Expires January 31, 2004

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		7. If Unit or CA Agreement, Name and No.	
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		8. Lease Name and Well No. Federal V#5H	
2. Name of Operator Mewbourne Oil Company - 14744		9. API Well No. 30-015-38376	
3a. Address PO Box 5270 Hobbs, NM 88241		10. Field and Pool, or Exploratory North Burton Flat	
3b. Phone No. (include area code) 575-393-5905		11. Sec., T., R., M., or Blk. and Survey or Area Sec 8-T20S-R28E	
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface 330' FNL & 1980' FWL (Unit C) At proposed prod. zone 330' FSL & 1720' FWL Unit N		12. County or Parish Eddy	
14. Distance in miles and direction from nearest town or post office* 9 Miles North of Carlsbad, NM		13. State NM	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 330'	16. No. of Acres in lease 280	17. Spacing Unit dedicated to this well 160'	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 1961'	19. Proposed Depth 6187 TVD 10537 MD 10523	20. BLM/BIA Bond No. on file NM1693, Nationwide	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3299' GL	22. Approximate date work will start* ASAP	23. Estimated duration 30	

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

- | | |
|---|--|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification. |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the authorized officer. |

25. Signature 	Name (Printed/Typed) Jackie Lathan	Date 08/30/10
Title Hobbs Regulatory		
Approved by (Signature) 	Name (Printed/Typed) James A. Ames	Date DEC 3 2010
Title FIELD MANAGER		
Office CARLSBAD FIELD OFFICE		

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

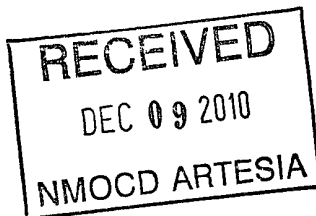
Conditions of approval, if any, are attached.

APPROVAL FOR TWO YEARS

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.

*(Instructions on reverse)

Capitan Controlled Water Basin



Approval Subject to General Requirements & Special Stipulations Attached

**SEE ATTACHED FOR
CONDITIONS OF APPROVAL**

**United States Department of the Interior
Bureau of Land Management
Carlsbad Field Office
620 E Greene Street
Carlsbad, New Mexico 88201-1287**

Statement Accepting Responsibility for Operations

Operator Name: Mewbourne Oil Company
Street or Box: P.O. Box 5270
City, State: Hobbs, New Mexico
Zip Code: 88241

The undersigned accepts all applicable terms, conditions, stipulations, and restrictions concerning operations conducted of the leased land or portion thereof, as described below.

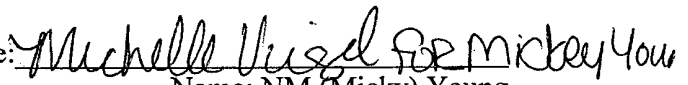
Lease Number: Lease Number #NM-83584

Legal Description of Land: Section 8, T-20S, R-28E Eddy County, New Mexico.
Location @ 330' FNL & 1980' FWL.

Formation (if applicable): Bone Springs

Bond Coverage: \$150,000

BLM Bond File: NM1693, Nationwide

Authorized Signature: 
Name: NM (Micky) Young
Title: District Manager
Date: August 26, 2010

Drilling Program
Mewbourne Oil Company
 Federal "V" #5H
 330' FNL & 1980' FWL (SHL)
 Sec 8-T20S-R28E
 Eddy County, New Mexico

1. The estimated tops of geological markers are as follows:

*Yates	810'
*Delaware	2900'
*Bone Spring	4540'
*1 st Bone Springs Sand	6040'

2. Estimated depths of anticipated fresh water, oil, or gas:

Water	Fresh water will be protected by setting surface casing at 300' and cementing to surface.
Hydrocarbons	Oil and gas are anticipated in the above (*) formations. These zones will be protected by casing as necessary.

3. Pressure control equipment:

A 3000# WP Double Ram BOP and 3000# WP Annular will be installed after running 9 5/8" casing. Pressure tests will be conducted prior to drilling out under all casing strings. BOP controls will be installed prior to drilling under surface casing and will remain in use until completion of drilling operations. BOP's will be inspected and operated as recommended in Onshore Order #2. A Kelly cock and a sub equipped with a full opening valve sized to fit the drill pipe and collars will be available on the rig floor in the open position when the Kelly is not in use. Will test the 9 5/8" BOPE to 3000# and the Annular to 1500# with a third party testing company before drilling below each shoe, but will test again, if needed, in 30 days from the 1st test as per BLM Onshore Oil and Gas Order #2.

4. MOC proposes to drill a vertical wellbore to 5550' & kick off to horizontal @ 6123' TVD. The well will be drilled to 10523' MD (6187' TVD). See attached directional plan.

5. Proposed casing and cementing program:

A. Casing Program:

<u>Hole Size</u>	<u>Casing</u>	<u>Wt/Ft.</u>	<u>Grade</u>	<u>Depth</u>	<u>Jt Type</u>
12 1/4"	9 5/8" (new)	36#	J55	0'-300' <i>see COA</i>	LT&C
8 3/4"	7" (new)	26#	P110	0'-5550' MD	LT&C
8 3/4"	7" (new)	26#	P110	5550'-6441' MD	BT&C
6 1/8"	4 1/2" (new)	11.6#	P110	6200'-10537' MD 10,523	LT&C

Minimum casing design factors: Collapse 1.125, Burst 1.0, Tensile strength 1.8.
 (*Subject to availability of casing.)
see COA

B. Cementing Program:

- See COA*
- i. Surface Casing: 100 sks Class C cement containing 2% CaCl. Yield at 1.34 cuft/sk. Cmt circulated to surface.
 - ii. Intermediate Casing: 450 sacks Class H light cement with additives. Yield at 2.12 cuft/sk. 400 sacks Class H cement Containing FLA. Yield at 1.18 cuft/sk Cmt circulated to surface.
 - ii. Production Liner: This will be a Packer/Port completion from TD up inside 7" casing with packer type liner hanger.

See COA

*Mewbourne Oil Company reserves the right to change cement designs as hole conditions may warrant.

6. Mud Program:

<u>Interval</u>	<u>Type System</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Fluid Loss</u>
0'-300'	FW spud mud	8.6-9.0	32-34	NA
300'-6441'	Brine water	10.0-10.2	28-30	NA
6441'- TD	FW w/Polymer	8.5-8.7	32-35	15

7. Evaluation Program: *See COA*

Samples: 10' samples from surface casing to TD
Logging: Tie-in GR & Gyro from KOP (5550') to surface. GR from 5550' to TD.

8. Downhole Conditions

Zones of abnormal pressure:	None anticipated
Zones of lost circulation:	Anticipated in surface and intermediate holes
Maximum bottom hole temperature:	120 degree F
Maximum bottom hole pressure:	8.3 lbs/gal gradient or less

9. Anticipated Starting Date:

Mewbourne Oil Company intends to drill this well as soon as possible after receiving approval with approximately 45 days involved in drilling operations and an additional 10 days involved in completion operations on the project.

Mewbourne Oil Company

Location: Eddy County, NM
Field: (Fed V) Sec 8, T20S, R28E
Facility: Federal V No. 5H

Sect: No. 5H SH-L
Well: No. 5H
Wellbore: No. 5H PWB

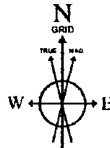
Well Profile Data

Design Comment	MD (ft)	Inc. (°)	Az. (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	0.00	0.000	184.313	0.00	0.00	0.00	0.00	0.00
EST. KOP	5550.00	0.000	184.313	5550.00	0.00	0.00	0.00	0.00
END OF CURVE	6441.00	89.100	184.313	6122.89	-562.36	-42.41	10.00	563.96
No. 5H PBHL	10522.86	89.100	184.313	6187.00	-4632.16	-349.34	0.00	4645.32

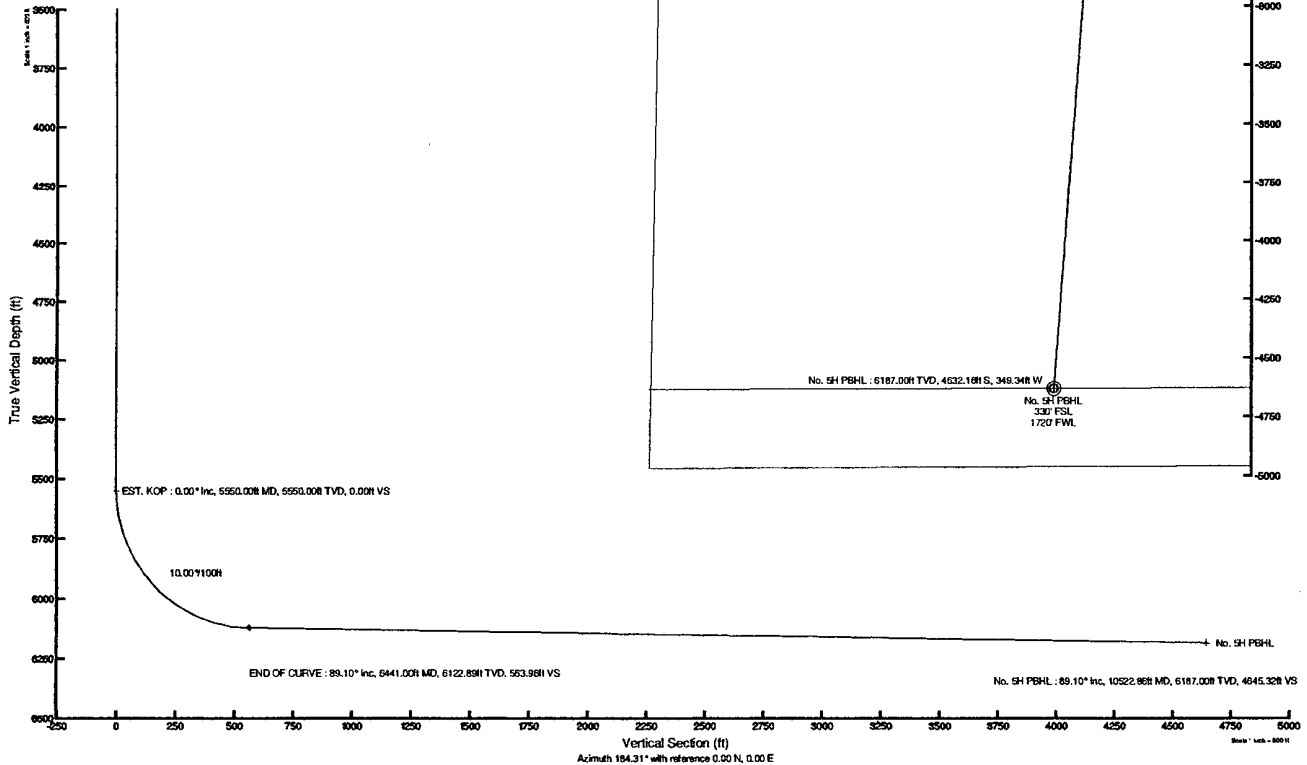


Mewbourne Oil Company

<p>Wellbore Data and Profile</p> <p>Wellbore depth is referenced to Rig as No. 5H SH-L, 1980' FNL</p> <p>Wellbore depth is referenced to Rig as No. 5H SH-L, 1980' FNL</p> <p>Top of 1st 8 1/2" BOP is 10522.86 ft</p> <p>Wellbore depth is referenced to Rig as No. 5H SH-L, 1980' FNL</p> <p>Coordinates are in feet, referenced to 1983</p>	<p>Grid System: NAD83 / 7th US Marine State Plane, Eastern Zone 1808' / 1.5 inch</p> <p>Graphic Reference: Grid North</p> <p>Scale: 1 inch = 100 feet</p> <p>Decline: 0.00%</p> <p>Graphic: 1/2" = 100'</p>
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BGGM (1945.0 to 2011.0) Dip: 60.45° Field: 48915.6 nT
Magnetic North is 8.04 degrees East of True North (at 8/15/2010)
Grid North is 0.07 degrees East of True North
To correct azimuth from True to Grid subtract 0.07 degrees
To correct azimuth from Magnetic to Grid add 7.97 degrees
For example: if the Magnetic North Azimuth = 90 degs, then the Grid North Azimuth = 90 + 7.97 = 97.97



Planned Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION			
Operator	Mewbourne Oil Company	Slot	No. 5H SHL
Area	Eddy County, NM	Well	No. 5H
Field	(Fed V) Sec 8, T20S, R28E	Wellbore	No. 5H PWB
Facility	Federal V No. 5H		

REPORT SETUP INFORMATION			
Projection System	NAD27 / TM New Mexico State Planes, Eastern Zone (3001), US feet	Software System	WellArchitect® 2.0
North Reference	Grid	User	Victor Hernandez
Scale	0.999911	Report Generated	8/16/2010 at 3:03:58 PM
Convergence at slot	0.07° East	Database/Source file	WA_Midland/No. 5H_PWB.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[USft]	Northing[USft]	Latitude	Longitude
Slot Location	0.00	0.00	540665.31	579951.34	32°35'39.560"N	104°12'04.658"W
Facility Reference Pt			540665.31	579951.34	32°35'39.560"N	104°12'04.658"W
Field Reference Pt			540665.31	579951.34	32°35'39.560"N	104°12'04.658"W

WELLPATH DATUM			
Calculation method	Minimum curvature	Rig on No. 5H SHL (KB) to GL	18.00ft
Horizontal Reference Pt	Slot	Rig on No. 5H SHL (KB) to Mean Sea Level	3317.00ft
Vertical Reference Pt	Rig on No. 5H SHL (KB)	GL to Mud Line (Facility)	0.00ft
MD Reference Pt	Rig on No. 5H SHL (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	184.31°

Planned Wellpath Report

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Field	(Fed V) Sec 8, T20S, R28E	Wellbore	No. 5H PWB
Facility	Federal V No. 5H		

WELLPATH DATA (53 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	DLS [°/100ft]	Comments
0.00	0.000	184.313	0.00	0.00	0.00	0.00	540665.31	579951.34	32°35'39.560"N	104°12'04.658"W	0.00	Tie On
5550.00	0.000	184.313	5550.00	0.00	0.00	0.00	540665.31	579951.34	32°35'39.560"N	104°12'04.658"W	0.00	EST. KOP
5650.00†	10.000	184.313	5649.49	8.70	-8.68	-0.65	540664.66	579942.66	32°35'39.474"N	104°12'04.666"W	10.00	
5750.00†	20.000	184.313	5745.96	34.55	-34.46	-2.60	540662.71	579916.89	32°35'39.219"N	104°12'04.689"W	10.00	
5850.00†	30.000	184.313	5836.48	76.76	-76.54	-5.77	540659.54	579874.80	32°35'38.803"N	104°12'04.727"W	10.00	
5950.00†	40.000	184.313	5918.29	134.05	-133.67	-10.08	540655.23	579817.69	32°35'38.238"N	104°12'04.778"W	10.00	
6050.00†	50.000	184.313	5988.91	204.67	-204.09	-15.39	540649.92	579747.27	32°35'37.541"N	104°12'04.841"W	10.00	
6150.00†	60.000	184.313	6046.20	286.48	-285.67	-21.54	540643.77	579665.70	32°35'36.734"N	104°12'04.914"W	10.00	
6250.00†	70.000	184.313	6088.40	376.99	-375.93	-28.35	540636.96	579575.45	32°35'35.841"N	104°12'04.995"W	10.00	
6350.00†	80.000	184.313	6114.25	473.46	-472.12	-35.61	540629.71	579479.26	32°35'34.889"N	104°12'05.081"W	10.00	
6441.00	89.100	184.313	6122.89	563.96	-562.36	-42.41	540622.90	579389.03	32°35'33.996"N	104°12'05.162"W	10.00	END OF CURVE
6450.00†	89.100	184.313	6123.03	572.96	-571.33	-43.09	540622.23	579380.06	32°35'33.908"N	104°12'05.170"W	0.00	
6550.00†	89.100	184.313	6124.60	672.94	-671.04	-50.61	540614.71	579280.36	32°35'32.921"N	104°12'05.259"W	0.00	
6650.00†	89.100	184.313	6126.17	772.93	-770.74	-58.13	540607.19	579180.67	32°35'31.935"N	104°12'05.349"W	0.00	
6750.00†	89.100	184.313	6127.74	872.92	-870.45	-65.65	540599.67	579080.97	32°35'30.948"N	104°12'05.438"W	0.00	
6850.00†	89.100	184.313	6129.31	972.91	-970.15	-73.17	540592.15	578981.28	32°35'29.962"N	104°12'05.527"W	0.00	
6950.00†	89.100	184.313	6130.88	1072.90	-1069.86	-80.68	540584.63	578881.58	32°35'28.975"N	104°12'05.617"W	0.00	
7050.00†	89.100	184.313	6132.45	1172.88	-1169.56	-88.20	540577.11	578781.88	32°35'27.989"N	104°12'05.706"W	0.00	
7150.00†	89.100	184.313	6134.02	1272.87	-1269.27	-95.72	540569.59	578682.19	32°35'27.002"N	104°12'05.795"W	0.00	
7250.00†	89.100	184.313	6135.59	1372.86	-1368.97	-103.24	540562.08	578582.49	32°35'26.016"N	104°12'05.885"W	0.00	
7350.00†	89.100	184.313	6137.16	1472.85	-1468.68	-110.76	540554.56	578482.80	32°35'25.029"N	104°12'05.974"W	0.00	
7450.00†	89.100	184.313	6138.74	1572.83	-1568.38	-118.28	540547.04	578383.10	32°35'24.043"N	104°12'06.063"W	0.00	
7550.00†	89.100	184.313	6140.31	1672.82	-1668.08	-125.80	540539.52	578283.41	32°35'23.056"N	104°12'06.153"W	0.00	
7650.00†	89.100	184.313	6141.88	1772.81	-1767.79	-133.32	540532.00	578183.71	32°35'22.070"N	104°12'06.242"W	0.00	
7750.00†	89.100	184.313	6143.45	1872.80	-1867.49	-140.84	540524.48	578084.02	32°35'21.083"N	104°12'06.331"W	0.00	
7850.00†	89.100	184.313	6145.02	1972.78	-1967.20	-148.36	540516.96	577984.32	32°35'20.097"N	104°12'06.421"W	0.00	
7950.00†	89.100	184.313	6146.59	2072.77	-2066.90	-155.88	540509.45	577884.63	32°35'19.110"N	104°12'06.510"W	0.00	
8050.00†	89.100	184.313	6148.16	2172.76	-2166.61	-163.40	540501.93	577784.93	32°35'18.124"N	104°12'06.599"W	0.00	
8150.00†	89.100	184.313	6149.73	2272.75	-2266.31	-170.92	540494.41	577685.23	32°35'17.138"N	104°12'06.689"W	0.00	
8250.00†	89.100	184.313	6151.30	2372.74	-2366.02	-178.44	540486.89	577585.54	32°35'16.151"N	104°12'06.778"W	0.00	

Planned Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION

Operator	Mewbourne Oil Company	Slot	No. 5H SHL
Area	Eddy County, NM	Well	No. 5H
Field	(Fed V) Sec 8, T20S, R28E	Wellbore	No. 5H PWB
Facility	Federal V No. 5H		

WELLPATH DATA (53 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	DLS [°/100ft]	Comments
8350.00†	89.100	184.313	6152.87	2472.72	-2465.72	-185.96	540479.37	577485.84	32°35'15.165"N	104°12'06.867"W	0.00	
8450.00†	89.100	184.313	6154.44	2572.71	-2565.43	-193.48	540471.85	577386.15	32°35'14.178"N	104°12'06.957"W	0.00	
8550.00†	89.100	184.313	6156.01	2672.70	-2665.13	-200.99	540464.33	577286.45	32°35'13.192"N	104°12'07.046"W	0.00	
8650.00†	89.100	184.313	6157.58	2772.69	-2764.83	-208.51	540456.81	577186.76	32°35'12.205"N	104°12'07.135"W	0.00	
8750.00†	89.100	184.313	6159.15	2872.67	-2864.54	-216.03	540449.30	577087.06	32°35'11.219"N	104°12'07.225"W	0.00	
8850.00†	89.100	184.313	6160.72	2972.66	-2964.24	-223.55	540441.78	576987.37	32°35'10.232"N	104°12'07.314"W	0.00	
8950.00†	89.100	184.313	6162.30	3072.65	-3063.95	-231.07	540434.26	576887.67	32°35'09.246"N	104°12'07.403"W	0.00	
9050.00†	89.100	184.313	6163.87	3172.64	-3163.65	-238.59	540426.74	576787.98	32°35'08.259"N	104°12'07.493"W	0.00	
9150.00†	89.100	184.313	6165.44	3272.62	-3263.36	-246.11	540419.22	576688.28	32°35'07.273"N	104°12'07.582"W	0.00	
9250.00†	89.100	184.313	6167.01	3372.61	-3363.06	-253.63	540411.70	576588.58	32°35'06.286"N	104°12'07.671"W	0.00	
9350.00†	89.100	184.313	6168.58	3472.60	-3462.77	-261.15	540404.18	576488.89	32°35'05.300"N	104°12'07.760"W	0.00	
9450.00†	89.100	184.313	6170.15	3572.59	-3562.47	-268.67	540396.67	576389.19	32°35'04.313"N	104°12'07.850"W	0.00	
9550.00†	89.100	184.313	6171.72	3672.57	-3662.17	-276.19	540389.15	576289.50	32°35'03.327"N	104°12'07.939"W	0.00	
9650.00†	89.100	184.313	6173.29	3772.56	-3761.88	-283.71	540381.63	576189.80	32°35'02.340"N	104°12'08.028"W	0.00	
9750.00†	89.100	184.313	6174.86	3872.55	-3861.58	-291.23	540374.11	576090.11	32°35'01.354"N	104°12'08.118"W	0.00	
9850.00†	89.100	184.313	6176.43	3972.54	-3961.29	-298.75	540366.59	575990.41	32°35'00.367"N	104°12'08.207"W	0.00	
9950.00†	89.100	184.313	6178.00	4072.53	-4060.99	-306.27	540359.07	575890.72	32°34'59.381"N	104°12'08.296"W	0.00	
10050.00†	89.100	184.313	6179.57	4172.51	-4160.70	-313.79	540351.55	575791.02	32°34'58.395"N	104°12'08.386"W	0.00	
10150.00†	89.100	184.313	6181.14	4272.50	-4260.40	-321.30	540344.03	575691.33	32°34'57.408"N	104°12'08.475"W	0.00	
10250.00†	89.100	184.313	6182.71	4372.49	-4360.11	-328.82	540336.52	575591.63	32°34'56.422"N	104°12'08.564"W	0.00	
10350.00†	89.100	184.313	6184.28	4472.48	-4459.81	-336.34	540329.00	575491.93	32°34'55.435"N	104°12'08.654"W	0.00	
10450.00†	89.100	184.313	6185.86	4572.46	-4559.52	-343.86	540321.48	575392.24	32°34'54.449"N	104°12'08.743"W	0.00	
10522.86	89.100	184.313	6187.00†	4645.32	-4632.16	-349.34	540316.00	575319.60	32°34'53.730"N	104°12'08.808"W	0.00	No. 5H PBHL

Planned Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION

Operator	Mewbourne Oil Company	Slot	No. 5H SHL
Area	Eddy County, NM	Well	No. 5H
Field	(Fed V) Sec 8, T20S, R28E	Wellbore	No. 5H PWB
Facility	Federal V No. 5H		

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
1) No. 5H PBHL	10522.86	6187.00	-4632.16	-349.34	540316.00	575319.60	32°34'53.730"N	104°12'08.808"W	point

SURVEY PROGRAM Ref Wellbore: No. 5H PWB Ref Wellpath: Prelim_1

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
18.00	10522.86	NaviTrak (Standard)		No. 5H PWB

Notes Regarding Blowout Preventer

Mewbourne Oil Company

Federal "V" #5H

330' FNL & 1980' FWL (SL)

Sec 8-T20S-R28E

Eddy County, New Mexico

- I. Drilling nipple (bell nipple) to be constructed so that it can be removed without the use of a welder through the opening of the rotary table, with minimum internal diameter equal to blowout preventer bore.
- II. Blowout preventer and all fittings must be in good condition with a minimum 3000 psi working pressure on 9 5/8" casing and 3000 psi working pressure on 7" casing.
- III. Safety valve must be available on the rig floor at all times with proper connections to install in the drill string. Valve must be full bore with minimum 3000 psi working pressure.
- IV. Equipment through which bit must pass shall be at least as large as internal diameter of the casing.
- V. A kelly cock shall be installed on the kelly at all times.

Blowout preventer closing equipment to include and accumulator of at least 40 gallon capacity, two independent sources of pressure on closing unit, and meet all other API specifications.

Mewbourne Oil Company
BOP Schematic for
6 1/8" Hole

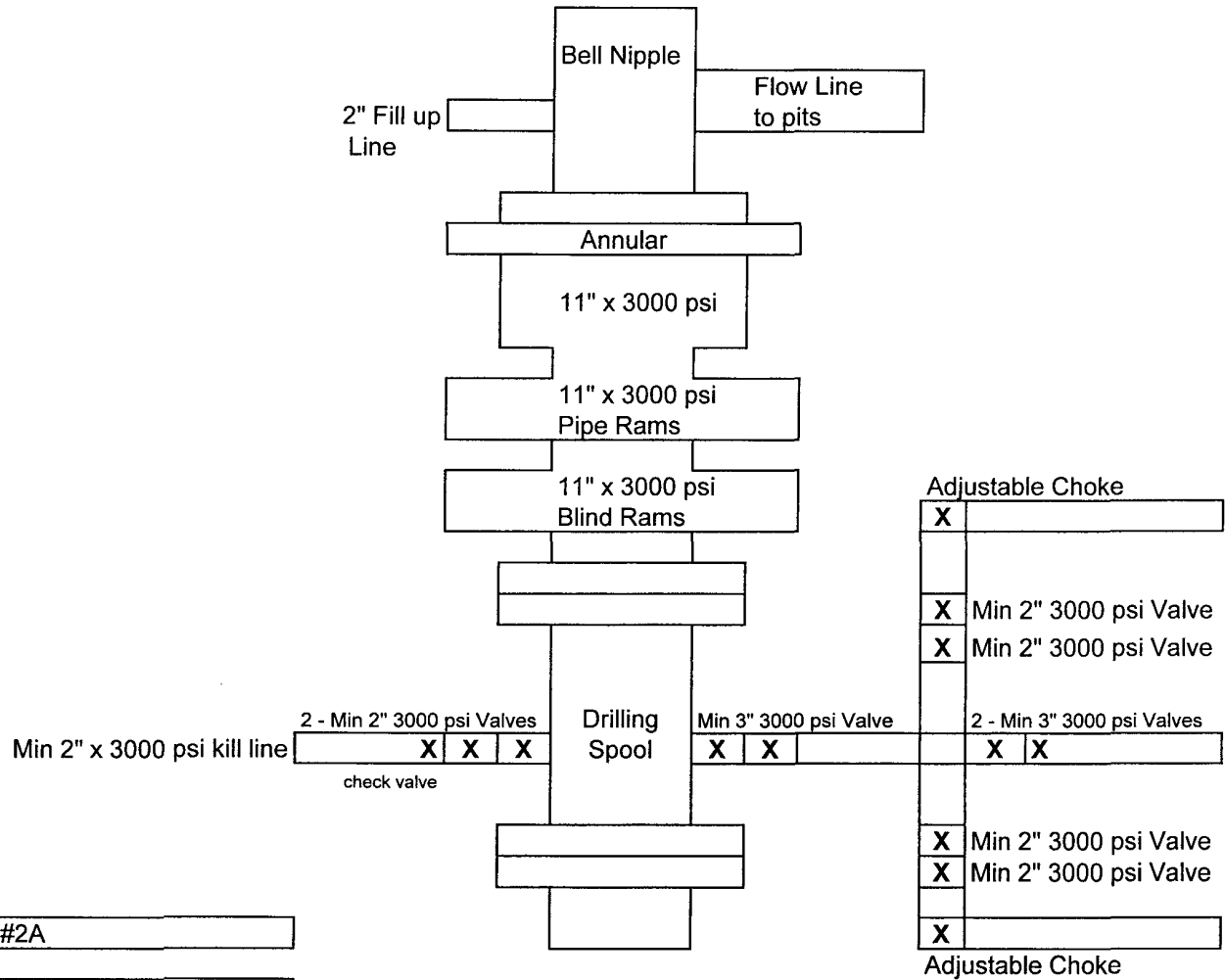
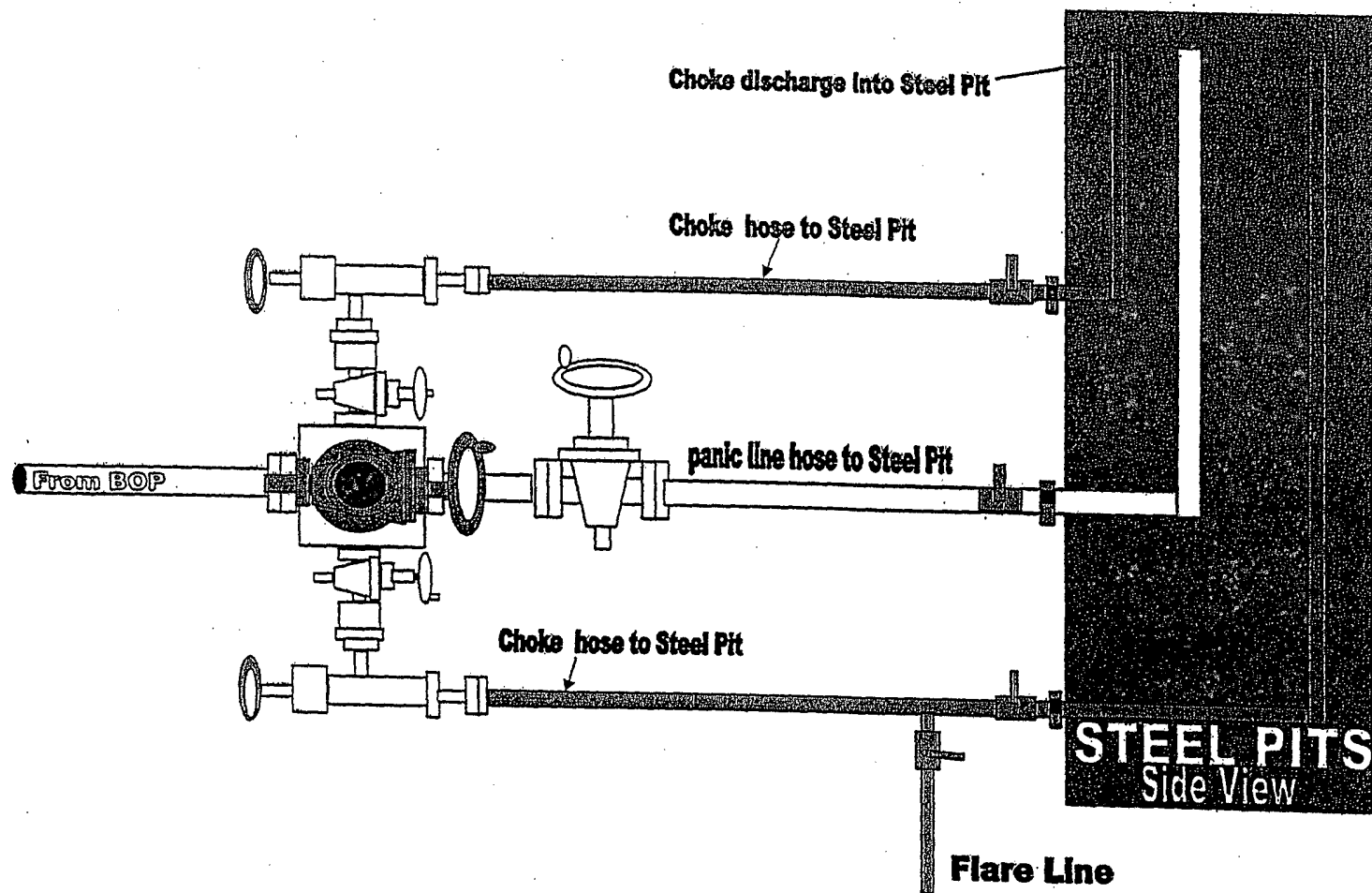


Exhibit #2A

Federal "V" #5H
330' FNL & 1980' FWL
Sec 8-T20S-R28E
Eddy, County
New Mexico



2000#/3000# BOP manifold system

For Exhibit 2 + 2A