



U.S. Department of the Interior  
BUREAU OF LAND MANAGEMENT

**Sundry Print Report**

03/01/2021

<b>Well Name:</b> BLACK SHEEP 4-33 B3MD FED COM	<b>Well Location:</b> T22S / R34E / SEC 4 / SWSW / 32.4140341 / -103.4820317	<b>County or Parish/State:</b> LEA / NM
<b>Well Number:</b> 1H	<b>Type of Well:</b> OIL WELL	<b>Allottee or Tribe Name:</b>
<b>Lease Number:</b> NMNM0381970	<b>Unit or CA Name:</b>	<b>Unit or CA Number:</b>
<b>US Well Number:</b> 3002546395	<b>Well Status:</b> Approved Application for Permit to Drill	<b>Operator:</b> MEWBOURNE OIL COMPANY

**Notice of Intent****Type of Submission:** Notice of Intent**Type of Action** APD Change**Date Sundry Submitted:** 02/23/2021**Time Sundry Submitted:** 05:14**Date proposed operation will begin:** 02/23/2021

**Procedure Description:** Mewbourne Oil Co. requests approval to make the following change(s) to the approved APD:  
Change the well name to Black Sheep 4/33 B3MD Fed Com #1H. Change the BHL to 100' FNL & 450' FWL, Sec 33,  
T21S, R34E. Change casing and cement design as detailed in the attachment.

Application

<b>Well Name:</b> BLACK SHEEP 4-33 B3MD FED COM	<b>Well Location:</b> T22S / R34E / SEC 4 / SWSW / 32.4140341 / -103.4820317	<b>County or Parish/State:</b> LEA / NM
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### Section 1 - General

<b>APD ID:</b> 10400034739	<b>Tie to previous NOS?</b>	<b>Submission Date:</b> 10/19/2018
<b>BLM Office:</b> CARLSBAD	<b>User:</b> Bradley Bishop	<b>Title:</b> Regulatory
<b>Federal/Indian APD:</b> FED	<b>Is the first lease penetrated for production Federal or Indian?</b> FED	
<b>Lease number:</b> NMNM0381970	<b>Lease Acres:</b>	
<b>Surface access agreement in place?</b>	<b>Allotted?</b>	<b>Reservation:</b>
<b>Agreement in place?</b> NO	<b>Federal or Indian agreement:</b>	
<b>Agreement number:</b>		
<b>Agreement name:</b>		
<b>Keep application confidential?</b> Y		
<b>Permitting Agent?</b> NO	<b>APD Operator:</b> MEWBOURNE OIL COMPANY	
<b>Operator letter of designation:</b>	BlackSheep4B2MDFedCom2H_operatorletterofdesignation_20181002091305.pdf	

### Operator Info

**Operator Organization Name:** MEWBOURNE OIL COMPANY

**Operator Address:** PO Box 5270

**Operator PO Box:**

**Operator City:** Hobbs **State:** NM

**Operator Phone:** (575)393-5905

**Operator Internet Address:**

**Zip:** 88240

### Section 2 - Well Information

<b>Well in Master Development Plan?</b> NO	<b>Master Development Plan name:</b>	
<b>Well in Master SUPO?</b> NO	<b>Master SUPO name:</b>	
<b>Well in Master Drilling Plan?</b> NO	<b>Master Drilling Plan name:</b>	
<b>Well Name:</b> BLACK SHEEP 4 B2MD FED COM	<b>Well Number:</b> 2H	<b>Well API Number:</b> 3002546395
<b>Field/Pool or Exploratory?</b> Field and Pool	<b>Field Name:</b> GATUNA CANYON	<b>Pool Name:</b> BONE SPRING
<b>Is the proposed well in an area containing other mineral resources?</b> USEABLE WATER		

<b>Is the proposed well in a Helium production area?</b> N	<b>Use Existing Well Pad?</b> NO	<b>New surface disturbance?</b>
<b>Type of Well Pad:</b> SINGLE WELL	<b>Multiple Well Pad Name:</b>	<b>Number:</b>
<b>Well Class:</b> HORIZONTAL	<b>Number of Legs:</b>	
<b>Well Work Type:</b> Drill		
<b>Well Type:</b> OIL WELL		
<b>Describe Well Type:</b>		

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Is the proposed well in an area containing other mineral resources? USEABLE WATER

**Well sub-Type:** APPRAISAL

**Describe sub-type:**

**Distance to town:** 20 Miles

**Distance to nearest well:** 1012 FT

**Distance to lease line:** 185 FT

**Reservoir well spacing assigned acres Measurement:** 320 Acres

**Well plat:** BlackSheep4B2MDFedCom2H\_wellplat\_20181002091400.pdf

**Well work start Date:** 01/02/2019

**Duration:** 60 DAYS

### Section 3 - Well Location Table

**Survey Type:** RECTANGULAR

**Describe Survey Type:**

**Datum:** NAD83

**Vertical Datum:** NAVD88

**Survey number:**

**Reference Datum:**

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this lease?
SHL Leg #1	205	FSL	450	FW L	22S	34E	4	Aliquot SWS W	32.4140341	-103.4820317	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 0381970	3608	27	27	
KOP Leg #1	10	FSL	450	FW L	22S	34E	4	Aliquot SWS W	32.413498	-103.4820343	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 0381970	-6435	10047	10043	
PPP Leg #1-1	2638	FSL	450	FW L	22S	34E	4	Aliquot SWN W	32.42781	-103.4819582	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 0058678	-6942	12949	10550	
PPP Leg #1-2	100	FSL	450	FW L	22S	34E	4	Aliquot SWS W	32.4137454	-103.482033	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 0381970	-6714	10345	10322	

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Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this lease?
EXIT Leg #1	100	FNL	450	FW L	22S	34E	4	Aliquot NWN W	32.4278099	-103.4819571	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 0058678	-6977	15527	10585	
BHL Leg #1	100	FNL	450	FW L	22S	34E	4	Aliquot NWN W	32.4278099	-103.4819571	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 0058678	-6977	15527	10585	

### Drilling Plan

#### Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
1617564	UNKNOWN	3608	27	27		NONE	N
1617569	RUSTLER	1833	1775	1775	ANHYDRITE, DOLOMITE	USEABLE WATER	N
1617568	TOP SALT	1348	2260	2260	SALT	NONE	N
1617565	BOTTOM SALT	-127	3735	3735	SALT	NONE	N
1617572	YATES	-367	3975	3975	SANDSTONE	NATURAL GAS, OIL	N
1617573	CAPITAN REEF	-657	4265	4265	DOLOMITE, LIMESTONE	USEABLE WATER	N
1617570	DELAWARE	-1677	5285	5285	LIMESTONE	NATURAL GAS, OIL	N
1617563	BONE SPRINGS	-4952	8560	8560	LIMESTONE, SHALE	NATURAL GAS, OIL	N
1617566	BONE SPRING 1ST	-6057	9665	9665	SANDSTONE	NATURAL GAS, OIL	N
1617567	BONE SPRING 2ND	-6602	10210	10210	SANDSTONE	NATURAL GAS, OIL	Y

#### Section 2 - Blowout Prevention

**Pressure Rating (PSI):** 5M

**Rating Depth:** 15527

**Equipment:** Annular, Pipe Rams, Blind Ram

**Requesting Variance?** YES

**Variance request:** A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. Anchors not required by manufacturer. A multi-bowl wellhead is being used. See attached schematic

**Testing Procedure:** BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure

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indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested. Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold.

**Choke Diagram Attachment:**

Black\_Sheep\_4\_B2MD\_Fed\_Com\_2H\_5M\_BOPE\_Choke\_Diagram\_20181018105406.pdf

Black\_Sheep\_4\_B2MD\_Fed\_Com\_2H\_Flex\_Line\_Specs\_20181018105408.pdf

**BOP Diagram Attachment:**

Black\_Sheep\_4\_B2MD\_Fed\_Com\_2H\_Multi\_Bowl\_WH\_20181018105428.pdf

Black\_Sheep\_4\_B2MD\_Fed\_Com\_2H\_5M\_BOPE\_Schematic\_20181018105427.pdf

### Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	Y	0	1800	0	1800	3635	1835	1800	H-40	48	ST&C	1.125	2.53	DRY	3.71	DRY	6.125
2	INTERMEDIATE	12.25	9.625	NEW	API	Y	0	5260	0	5260	3624	-1625	5260	J-55	36	LT&C	1.125	1.96	DRY	2.3	DRY	2.125
3	PRODUCTION	8.75	7.0	NEW	API	N	0	10790	0	10520	3635	-6885	10790	P-110	26	LT&C	1.2	1.91	DRY	2.28	DRY	2.125
4	LINER	6.125	4.5	NEW	API	N	10047	15527	10043	10585	-6408	-6950	5480	P-110	13.5	LT&C	1.62	1.88	DRY	4.57	DRY	5.125

**Casing Attachments**

**Casing ID:** 1      **String Type:** SURFACE

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

Black\_Sheep\_4\_B2MD\_Fed\_Com\_2H\_Surface\_Csg\_Tapered\_String\_20181018150949.pdf

**Casing Design Assumptions and Worksheet(s):**

Black\_Sheep\_4\_B2MD\_Fed\_Com\_2H\_Csg\_Assumptions\_20181018151257.doc

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**Casing Attachments**

**Casing ID:** 2      **String Type:** INTERMEDIATE

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

Black\_Sheep\_4\_B2MD\_Fed\_Com\_2H\_Intermediate\_Csg\_Tapered\_String\_20181018151340.pdf

**Casing Design Assumptions and Worksheet(s):**

Black\_Sheep\_4\_B2MD\_Fed\_Com\_2H\_Csg\_Assumptions\_20181019085344.doc

**Casing ID:** 3      **String Type:** PRODUCTION

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

**Casing Design Assumptions and Worksheet(s):**

Black\_Sheep\_4\_B2MD\_Fed\_Com\_2H\_Csg\_Assumptions\_20181019085547.doc

**Casing ID:** 4      **String Type:** LINER

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

**Casing Design Assumptions and Worksheet(s):**

Black\_Sheep\_4\_B2MD\_Fed\_Com\_2H\_Csg\_Assumptions\_20181019085751.doc

**Section 4 - Cement**

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
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String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	1607	1055	2.12	12.5	2237	100	Class C	Salt, Gel, Extender, LCM
SURFACE	Tail		1607	1800	200	1.34	14.8	268	100	Class C	Retarder
INTERMEDIATE	Lead	4200	0	3570	720	2.12	12.5	1526	25	Class C	Salt, Gel, Extender, LCM
INTERMEDIATE	Tail		3570	4200	200	1.34	14.8	268	25	Class C	Retarder
INTERMEDIATE	Lead	4200	4200	4575	75	2.12	12.5	159	25	Class C	Salt, Gel, Extender, LCM
INTERMEDIATE	Tail		4575	5260	200	1.34	14.8	268	25	Class C	Retarder
PRODUCTION	Lead	5500	4215	4817	60	2.12	12.5	127	25	Class C	Gel, Retarder, Defoamer, Extender
PRODUCTION	Tail		4817	5500	100	1.34	14.8	134	25	Class C	Retarder
PRODUCTION	Lead	5500	5500	8278	250	2.12	12.5	530	25	Class C	Gel, Retarder, Defoamer, Extender
PRODUCTION	Tail		8278 0	1079 0	400	1.18	15.6	472	25	Class H	Retarder, Fluid Loss, Defoamer
LINER	Lead		1004 7	1558 5	220	2.97	11.2	653	25	Class C	Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-Settling Agent

### Section 5 - Circulating Medium

**Mud System Type:** Closed

**Will an air or gas system be Used?** NO

**Description of the equipment for the circulating system in accordance with Onshore Order #2:**

**Diagram of the equipment for the circulating system in accordance with Onshore Order #2:**

**Describe what will be on location to control well or mitigate other conditions:** Lost circulation material Sweeps Mud scavengers in surface hole

**Describe the mud monitoring system utilized:** Visual Monitoring

### Circulating Medium Table



<b>Well Name:</b> BLACK SHEEP 4-33 B3MD FED COM	<b>Well Location:</b> T22S / R34E / SEC 4 / SWSW / 32.4140341 / -103.4820317	<b>County or Parish/State:</b> LEA / NM
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Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	1800	SPUD MUD	8.6	8.8							
1800	5260	SALT SATURATED	10	10							
5260	10520	WATER-BASED MUD	8.6	9.5							
10520	10585	OIL-BASED MUD	9	12							

### Section 6 - Test, Logging, Coring

**List of production tests including testing procedures, equipment and safety measures:**

Will run GR/CNL from KOP (10047') to surface

**List of open and cased hole logs run in the well:**

CNL,DS,GR,MWD,MUDLOG

**Coring operation description for the well:**

None

### Section 7 - Pressure

**Anticipated Bottom Hole Pressure:** 6605

**Anticipated Surface Pressure:** 4276.3

**Anticipated Bottom Hole Temperature(F):** 140

**Anticipated abnormal pressures, temperatures, or potential geologic hazards?** NO

**Describe:**

**Contingency Plans geohazards description:**

**Contingency Plans geohazards attachment:**

**Hydrogen Sulfide drilling operations plan required?** YES

**Hydrogen sulfide drilling operations plan:**

Black\_Sheep\_4\_B2MD\_Fed\_Com\_2H\_H2S\_Plan\_20181019091954.pdf



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### Section 8 - Other Information

**Proposed horizontal/directional/multi-lateral plan submission:**

Black\_Sheep\_4\_B2MD\_Fed\_Com\_2H\_Dir\_Plan\_20181019092019.pdf

Black\_Sheep\_4\_B2MD\_Fed\_Com\_2H\_Dir\_Plot\_20181019092020.pdf

**Other proposed operations facets description:**

**Other proposed operations facets attachment:**

Black\_Sheep\_4\_B2MD\_Fed\_Com\_2H\_Drlg\_Program\_20181019092323.doc

Black\_Sheep\_4\_B2MD\_Fed\_Com\_2H\_OCD\_Sheet\_20181019092324.pdf

**Other Variance attachment:**

SUPO

### Section 1 - Existing Roads

**Will existing roads be used? YES**

**Existing Road Map:**

BlackSheep4B2MDFedCom2H\_existingroadmap\_20181002091611.pdf

**Existing Road Purpose:** ACCESS,FLUID TRANSPORT

**Row(s) Exist? NO**

**ROW ID(s)**

**ID:**

**Do the existing roads need to be improved? NO**

**Existing Road Improvement Description:**

**Existing Road Improvement Attachment:**

### Section 2 - New or Reconstructed Access Roads

**Will new roads be needed? YES**

**New Road Map:**

BlackSheep4B2MDFedCom2H\_newroadmap\_20181002091634.pdf

**New road type:** RESOURCE

**Length:** 1982.47

Feet

**Width (ft.):** 30

**Max slope (%):** 3

**Max grade (%):** 3

**Army Corp of Engineers (ACOE) permit required? NO**

**ACOE Permit Number(s):**

**New road travel width:** 14

**New road access erosion control:** None

**New road access plan or profile prepared? NO**

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**New road access plan attachment:**

**Access road engineering design?** NO

**Access road engineering design attachment:**

**Turnout?** Y

**Access surfacing type:** OTHER

**Access topsoil source:** OFFSITE

**Access surfacing type description:** Caliche

**Access onsite topsoil source depth:**

**Offsite topsoil source description:** Stored onsite, on edge of slope.

**Onsite topsoil removal process:**

**Access other construction information:** None

**Access miscellaneous information:** None

**Number of access turnouts:** 1

**Access turnout map:**

### Drainage Control

**New road drainage crossing:** OTHER

**Drainage Control comments:** None

**Road Drainage Control Structures (DCS) description:** None

**Road Drainage Control Structures (DCS) attachment:**

### Access Additional Attachments

### Section 3 - Location of Existing Wells

**Existing Wells Map?** YES

**Attach Well map:**

BlackSheep4B2MDFedCom2H\_existingwellmap\_20181002091719.pdf

### Section 4 - Location of Existing and/or Proposed Production Facilities

**Submit or defer a Proposed Production Facilities plan?** SUBMIT

**Production Facilities description:**

**Production Facilities map:**

BlackSheep4B2MDFedCom2H\_productionfacilitymap\_20181002091745.pdf

### Section 5 - Location and Types of Water Supply

#### Water Source Table

<b>Well Name:</b> BLACK SHEEP 4-33 B3MD FED COM	<b>Well Location:</b> T22S / R34E / SEC 4 / SWSW / 32.4140341 / -103.4820317	<b>County or Parish/State:</b> LEA / NM
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**Water source type:** IRRIGATION

**Water source use type:** SURFACE CASING  
STIMULATION  
DUST CONTROL  
INTERMEDIATE/PRODUCTION  
CASING

**Source latitude:** 32.430565

**Source longitude:** -103.66579

**Source datum:** NAD83

**Water source permit type:** WATER WELL

**Water source transport method:** TRUCKING

**Source land ownership:** PRIVATE

**Source transportation land ownership:** FEDERAL

**Water source volume (barrels):** 3510

**Source volume (acre-feet):** 0.45241478

**Source volume (gal):** 147420

**Water source type:** IRRIGATION

**Water source use type:** SURFACE CASING  
STIMULATION  
DUST CONTROL  
CAMP USE  
INTERMEDIATE/PRODUCTION  
CASING

**Source latitude:** 32.265114

**Source longitude:** -103.28177

**Source datum:** NAD83

**Water source permit type:** WATER WELL

**Water source transport method:** TRUCKING

**Source land ownership:** FEDERAL

**Source transportation land ownership:** FEDERAL

**Water source volume (barrels):** 3510

**Source volume (acre-feet):** 0.45241478

**Source volume (gal):** 147420

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**Water source and transportation map:**

BlackSheep4B2MDFedCom2H\_watersourceandtransmap\_20181002091809.pdf

**Water source comments:** Both sources shown on one map**New water well?** NO**New Water Well Info****Well latitude:****Well Longitude:****Well datum:****Well target aquifer:****Est. depth to top of aquifer(ft):****Est thickness of aquifer:****Aquifer comments:****Aquifer documentation:****Well depth (ft):****Well casing type:****Well casing outside diameter (in.):****Well casing inside diameter (in.):****New water well casing?****Used casing source:****Drilling method:****Drill material:****Grout material:****Grout depth:****Casing length (ft.):****Casing top depth (ft.):****Well Production type:****Completion Method:****Water well additional information:****State appropriation permit:****Additional information attachment:****Section 6 - Construction Materials****Using any construction materials:** YES**Construction Materials description:** Caliche - both sources shown on one map**Construction Materials source location attachment:**

BlackSheep4B2MDFedCom2H\_calichesourceandtransmap\_20181002091831.pdf

**Section 7 - Methods for Handling Waste****Waste type:** GARBAGE**Waste content description:** Garbage & trash**Amount of waste:** 1500 pounds**Waste disposal frequency :** One Time Only**Safe containment description:** Enclosed trash trailer**Safe containmant attachment:****Waste disposal type:** HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** PRIVATE

<b>Well Name:</b> BLACK SHEEP 4-33 B3MD FED COM	<b>Well Location:</b> T22S / R34E / SEC 4 / SWSW / 32.4140341 / -103.4820317	<b>County or Parish/State:</b> LEA / NM
<b>Well Number:</b> 1H	<b>Type of Well:</b> OIL WELL	<b>Allottee or Tribe Name:</b>
<b>Lease Number:</b> NMNM0381970	<b>Unit or CA Name:</b>	<b>Unit or CA Number:</b>
<b>US Well Number:</b> 3002546395	<b>Well Status:</b> Approved Application for Permit to Drill	<b>Operator:</b> MEWBOURNE OIL COMPANY

**Disposal type description:**

**Disposal location description:** Waste Management facility in Carlsbad.

**Waste type:** SEWAGE

**Waste content description:** Human waste & grey water

**Amount of waste:** 1500 gallons

**Waste disposal frequency :** Weekly

**Safe containment description:** 2,000 gallon plastic container

**Safe containmant attachment:**

**Waste disposal type:** HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** PRIVATE

**Disposal type description:**

**Disposal location description:** City of Carlsbad Water Treatment facility

**Waste type:** DRILLING

**Waste content description:** Drill cuttings

**Amount of waste:** 3510 barrels

**Waste disposal frequency :** One Time Only

**Safe containment description:** Drill cuttings will be properly contained in steel tanks (20 yard roll off bins.)

**Safe containmant attachment:**

**Waste disposal type:** HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** PRIVATE

**Disposal type description:**

**Disposal location description:** NMOCD approved waste disposal locations are CRI or Lea Land, both facilities are located on HWY 62/180, Sec. 27 T20S R32E.

### Reserve Pit

**Reserve Pit being used?** NO

**Temporary disposal of produced water into reserve pit?**

**Reserve pit length (ft.)** **Reserve pit width (ft.)**

**Reserve pit depth (ft.)** **Reserve pit volume (cu. yd.)**

**Is at least 50% of the reserve pit in cut?**

**Reserve pit liner**

**Reserve pit liner specifications and installation description**

### Cuttings Area

**Cuttings Area being used?** NO

**Are you storing cuttings on location?** NO

<b>Well Name:</b> BLACK SHEEP 4-33 B3MD FED COM	<b>Well Location:</b> T22S / R34E / SEC 4 / SWSW / 32.4140341 / -103.4820317	<b>County or Parish/State:</b> LEA / NM
<b>Well Number:</b> 1H	<b>Type of Well:</b> OIL WELL	<b>Allottee or Tribe Name:</b>
<b>Lease Number:</b> NMNM0381970	<b>Unit or CA Name:</b>	<b>Unit or CA Number:</b>
<b>US Well Number:</b> 3002546395	<b>Well Status:</b> Approved Application for Permit to Drill	<b>Operator:</b> MEWBOURNE OIL COMPANY

**Description of cuttings location**

Cuttings area length (ft.)

Cuttings area width (ft.)

Cuttings area depth (ft.)

Cuttings area volume (cu. yd.)

Is at least 50% of the cuttings area in cut?

WCuttings area liner

Cuttings area liner specifications and installation description

**Section 8 - Ancillary Facilities**

Are you requesting any Ancillary Facilities?: NO

Ancillary Facilities attachment:

Comments:

**Section 9 - Well Site Layout**

Well Site Layout Diagram:

BlackSheep4B2MDFedCom2H\_wellsitelayout\_20181002091901.pdf

Comments:

**Section 10 - Plans for Surface Reclamation**

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name:

Multiple Well Pad Number:

Recontouring attachment:

Drainage/Erosion control construction: None

Drainage/Erosion control reclamation: None

<b>Well pad proposed disturbance</b> (acres): 3.95	<b>Well pad interim reclamation (acres):</b> 1.75	<b>Well pad long term disturbance</b> (acres): 2.2
<b>Road proposed disturbance (acres):</b> 1.365	<b>Road interim reclamation (acres):</b> 0	<b>Road long term disturbance (acres):</b> 0
<b>Powerline proposed disturbance</b> (acres): 0	<b>Powerline interim reclamation (acres):</b> 0	<b>Powerline long term disturbance</b> (acres): 0
<b>Pipeline proposed disturbance</b> (acres): 0	<b>Pipeline interim reclamation (acres):</b> 0	<b>Pipeline long term disturbance</b> (acres): 0
<b>Other proposed disturbance (acres):</b> 0	<b>Other interim reclamation (acres):</b> 0	<b>Other long term disturbance (acres):</b> 0
<b>Total proposed disturbance:</b> 5.315	<b>Total interim reclamation:</b> 1.75	<b>Total long term disturbance:</b> 2.2

**Disturbance Comments:** In areas to be heavily disturbed, the top 6 inches of soil material, will be stripped and stockpiled on the perimeter of the well location to keep topsoil viable, and to make redistribution of topsoil more efficient during interim reclamation. Stockpiled topsoil should include vegetative material. Topsoil will be clearly segregated and stored separately from subsoils. Contaminated soil will not be stockpiled, but properly treated and handled prior to topsoil salvaging.

<b>Well Name:</b> BLACK SHEEP 4-33 B3MD FED COM	<b>Well Location:</b> T22S / R34E / SEC 4 / SWSW / 32.4140341 / -103.4820317	<b>County or Parish/State:</b> LEA / NM
<b>Well Number:</b> 1H	<b>Type of Well:</b> OIL WELL	<b>Allottee or Tribe Name:</b>
<b>Lease Number:</b> NMNM0381970	<b>Unit or CA Name:</b>	<b>Unit or CA Number:</b>
<b>US Well Number:</b> 3002546395	<b>Well Status:</b> Approved Application for Permit to Drill	<b>Operator:</b> MEWBOURNE OIL COMPANY

**Reconstruction method:** The areas planned for interim reclamation will then be recontoured to the original contour if feasible, or if not feasible, to an interim contour that blends with the surrounding topography as much as possible. Where applicable, the fill material of the well pad will be backfilled into the cut to bring the area back to the original contour. The interim cut and fill slopes prior to re-seeding will not be steeper than a 3:1 ratio, unless the adjacent native topography is steeper. Note: Constructed slopes may be much steeper during drilling, but will be recontoured to the above ratios during interim reclamation.

**Topsoil redistribution:** Topsoil will be evenly respread and aggressively revegetated over the entire disturbed area not needed for all-weather operations including cuts & fills. To seed the area, the proper BLM seed mixture, free of noxious weeds, will be used.

**Soil treatment:** NA

**Existing Vegetation at the well pad:** Various brush & grasses

**Existing Vegetation at the well pad attachment:**

**Existing Vegetation Community at the road:** Various brush & grasses

**Existing Vegetation Community at the road attachment:**

**Existing Vegetation Community at the pipeline:** NA

**Existing Vegetation Community at the pipeline attachment:**

**Existing Vegetation Community at other disturbances:** NA

**Existing Vegetation Community at other disturbances attachment:**

**Non native seed used?** NO

**Non native seed description:**

**Seedling transplant description:**

**Will seedlings be transplanted for this project?** NO

**Seedling transplant description attachment:**

**Will seed be harvested for use in site reclamation?** NO

**Seed harvest description:**

**Seed harvest description attachment:**

**Seed Management**

**Seed Table**

**Seed Summary**

**Total pounds/Acre:**

**Seed Type**

**Pounds/Acre**

**Seed reclamation attachment:**



<b>Well Name:</b> BLACK SHEEP 4-33 B3MD FED COM	<b>Well Location:</b> T22S / R34E / SEC 4 / SWSW / 32.4140341 / -103.4820317	<b>County or Parish/State:</b> LEA / NM
<b>Well Number:</b> 1H	<b>Type of Well:</b> OIL WELL	<b>Allottee or Tribe Name:</b>
<b>Lease Number:</b> NMNM0381970	<b>Unit or CA Name:</b>	<b>Unit or CA Number:</b>
<b>US Well Number:</b> 3002546395	<b>Well Status:</b> Approved Application for Permit to Drill	<b>Operator:</b> MEWBOURNE OIL COMPANY

### **Operator Contact/Responsible Official Contact Info**

**First Name:**  **Last Name:**

**Phone:** (575)393-5905 **Email:**  [bbishop@mewbourne.com](mailto:bbishop@mewbourne.com)

**Seedbed prep:** Final seedbed preparation will consist of contour cultivating to a depth of 4 to 6 inches within 24 hours prior to seeding, dozer tracking, or other imprinting in order to break the soil crust and create seed germination micro-sites.

**Seed BMP:** To seed the area, the proper BLM seed mixture, free of noxious weeds, will be used.

**Seed method:** drilling or broadcasting seed over entire reclaimed area.

**Existing invasive species? NO**

**Existing invasive species treatment description:**

**Existing invasive species treatment attachment:**

Weed treatment plan description: NA

**Weed treatment plan attachment:**

**Monitoring plan description:** vii. All reclaimed areas will be monitored periodically to ensure that revegetation occurs, that the area is not redisturbed, and that erosion and invasive/noxious weeds are controlled.

**Monitoring plan attachment:**

**Success standards:** regrowth within 1 full growing season of reclamation.

**Pit closure description:** NA

**Pit closure attachment:**

## Section 11 - Surface Ownership

**Disturbance type:** NEW ACCESS ROAD

**Describe:**

**Surface Owner:**

**Other surface owner description:**

**BIA Local Office:**

**BOR Local Office:**

**COE Local Office:**

**DOD Local Office:**

**NPS Local Office:**

**State Local Office:**

**Military Local Office:**

**USFWS Local Office:**

**Other Local Office:**

**USFS Region:**

**USFS Forest/Grassland:**

**USFS Ranger District:**

<b>Well Name:</b> BLACK SHEEP 4-33 B3MD FED COM	<b>Well Location:</b> T22S / R34E / SEC 4 / SWSW / 32.4140341 / -103.4820317	<b>County or Parish/State:</b> LEA / NM
<b>Well Number:</b> 1H	<b>Type of Well:</b> OIL WELL	<b>Allottee or Tribe Name:</b>
<b>Lease Number:</b> NMNM0381970	<b>Unit or CA Name:</b>	<b>Unit or CA Number:</b>
<b>US Well Number:</b> 3002546395	<b>Well Status:</b> Approved Application for Permit to Drill	<b>Operator:</b> MEWBOURNE OIL COMPANY

**Disturbance type:** EXISTING ACCESS ROAD

**Describe:**

**Surface Owner:**

**Other surface owner description:**

**BIA Local Office:**

**BOR Local Office:**

**COE Local Office:**

**DOD Local Office:**

**NPS Local Office:**

**State Local Office:**

**Military Local Office:**

**USFWS Local Office:**

**Other Local Office:**

**USFS Region:**

**USFS Forest/Grassland:**

**USFS Ranger District:**

**Disturbance type:** WELL PAD

**Describe:**

**Surface Owner:**

**Other surface owner description:**

**BIA Local Office:**

**BOR Local Office:**

**COE Local Office:**

**DOD Local Office:**

**NPS Local Office:**

**State Local Office:**

**Military Local Office:**

**USFWS Local Office:**

**Other Local Office:**

**USFS Region:**

**USFS Forest/Grassland:**

**USFS Ranger District:**

<b>Well Name:</b> BLACK SHEEP 4-33 B3MD FED COM	<b>Well Location:</b> T22S / R34E / SEC 4 / SWSW / 32.4140341 / -103.4820317	<b>County or Parish/State:</b> LEA / NM
<b>Well Number:</b> 1H	<b>Type of Well:</b> OIL WELL	<b>Allottee or Tribe Name:</b>
<b>Lease Number:</b> NMNM0381970	<b>Unit or CA Name:</b>	<b>Unit or CA Number:</b>
<b>US Well Number:</b> 3002546395	<b>Well Status:</b> Approved Application for Permit to Drill	<b>Operator:</b> MEWBOURNE OIL COMPANY

### Section 12 - Other Information

Right of Way needed? NO

Use APD as ROW?

ROW Type(s):

### ROW Applications

SUPO Additional Information: NONE

Use a previously conducted onsite? YES

**Previous Onsite information:** SEP 24 2018 Met w/RRC Surveying & staked location @ 205' FSL & 450' FWL, Sec 4, T22S, R34E, Lea Co., NM. (Elevation @ 3608'). Top soil stockpiled 30 to the W. New road needed off the NE corner headed E. Reclaim all sides 60. Production will go to Black Sheep OB battery. Will require arc study. Will require BLM onsite. Location: Lat.: 32.41403411 N, Long: -103.48203617 W NAD83.

### Other SUPO Attachment

BlackSheep4B2MDFedCom2H\_interimreclamationdiagram\_20181002092100.pdf  
BlackSheep4B2MDFedCom2H\_gascaptureplan\_20181002092047.pdf

PWD

### Section 1 - General

Would you like to address long-term produced water disposal? NO

### Section 2 - Lined Pits

Would you like to utilize Lined Pit PWD options? NO

<b>Well Name:</b> BLACK SHEEP 4-33 B3MD FED COM	<b>Well Location:</b> T22S / R34E / SEC 4 / SWSW / 32.4140341 / -103.4820317	<b>County or Parish/State:</b> LEA / NM
<b>Well Number:</b> 1H	<b>Type of Well:</b> OIL WELL	<b>Allottee or Tribe Name:</b>
<b>Lease Number:</b> NMNM0381970	<b>Unit or CA Name:</b>	<b>Unit or CA Number:</b>
<b>US Well Number:</b> 3002546395	<b>Well Status:</b> Approved Application for Permit to Drill	<b>Operator:</b> MEWBOURNE OIL COMPANY

**Produced Water Disposal (PWD) Location:****PWD surface owner:****PWD disturbance (acres):****Lined pit PWD on or off channel:****Lined pit PWD discharge volume (bbl/day):****Lined pit specifications:****Pit liner description:****Pit liner manufacturers information:****Precipitated solids disposal:****Describe precipitated solids disposal:****Precipitated solids disposal permit:****Lined pit precipitated solids disposal schedule:****Lined pit precipitated solids disposal schedule attachment:****Lined pit reclamation description:****Lined pit reclamation attachment:****Leak detection system description:****Leak detection system attachment:****Lined pit Monitor description:****Lined pit Monitor attachment:****Lined pit: do you have a reclamation bond for the pit?****Is the reclamation bond a rider under the BLM bond?****Lined pit bond number:****Lined pit bond amount:****Additional bond information attachment:****Section 3 - Unlined Pits****Would you like to utilize Unlined Pit PWD options? NO****Produced Water Disposal (PWD) Location:****PWD disturbance (acres):****PWD surface owner:****Unlined pit PWD on or off channel:****Unlined pit PWD discharge volume (bbl/day):****Unlined pit specifications:****Precipitated solids disposal:****Describe precipitated solids disposal:****Precipitated solids disposal permit:****Unlined pit precipitated solids disposal schedule:****Unlined pit precipitated solids disposal schedule attachment:****Unlined pit reclamation description:**

<b>Well Name:</b> BLACK SHEEP 4-33 B3MD FED COM	<b>Well Location:</b> T22S / R34E / SEC 4 / SWSW / 32.4140341 / -103.4820317	<b>County or Parish/State:</b> LEA / NM
<b>Well Number:</b> 1H	<b>Type of Well:</b> OIL WELL	<b>Allottee or Tribe Name:</b>
<b>Lease Number:</b> NMNM0381970	<b>Unit or CA Name:</b>	<b>Unit or CA Number:</b>
<b>US Well Number:</b> 3002546395	<b>Well Status:</b> Approved Application for Permit to Drill	<b>Operator:</b> MEWBOURNE OIL COMPANY

Unlined pit reclamation attachment:

Unlined pit Monitor description:

Unlined pit Monitor attachment:

Do you propose to put the produced water to beneficial use?

Beneficial use user confirmation:

Estimated depth of the shallowest aquifer (feet):

Does the produced water have an annual average Total Dissolved Solids (TDS) concentration equal to or less than that of the existing water to be protected?

TDS lab results:

Geologic and hydrologic evidence:

State authorization:

Unlined Produced Water Pit Estimated percolation:

Unlined pit: do you have a reclamation bond for the pit?

Is the reclamation bond a rider under the BLM bond?

Unlined pit bond number:

Unlined pit bond amount:

Additional bond information attachment:

#### Section 4 - Injection

Would you like to utilize Injection PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

Injection well type:

Injection well number:

Injection well name:

Assigned injection well API number?

Injection well API number:

Injection well new surface disturbance (acres):

Minerals protection information:

Mineral protection attachment:

Underground Injection Control (UIC) Permit?

UIC Permit attachment:

#### Section 5 - Surface Discharge

Would you like to utilize Surface Discharge PWD options? NO

<b>Well Name:</b> BLACK SHEEP 4-33 B3MD FED COM	<b>Well Location:</b> T22S / R34E / SEC 4 / SWSW / 32.4140341 / -103.4820317	<b>County or Parish/State:</b> LEA / NM
<b>Well Number:</b> 1H	<b>Type of Well:</b> OIL WELL	<b>Allottee or Tribe Name:</b>
<b>Lease Number:</b> NMNM0381970	<b>Unit or CA Name:</b>	<b>Unit or CA Number:</b>
<b>US Well Number:</b> 3002546395	<b>Well Status:</b> Approved Application for Permit to Drill	<b>Operator:</b> MEWBOURNE OIL COMPANY

**Produced Water Disposal (PWD) Location:**

**PWD surface owner:**

**PWD disturbance (acres):**

**Surface discharge PWD discharge volume (bbl/day):**

**Surface Discharge NPDES Permit?**

**Surface Discharge NPDES Permit attachment:**

**Surface Discharge site facilities information:**

**Surface discharge site facilities map:**

### Section 6 - Other

**Would you like to utilize Other PWD options?** NO

**Produced Water Disposal (PWD) Location:**

**PWD surface owner:**

**PWD disturbance (acres):**

**Other PWD discharge volume (bbl/day):**

**Other PWD type description:**

**Other PWD type attachment:**

**Have other regulatory requirements been met?**

**Other regulatory requirements attachment:**

### Operator Certification

#### Operator Certification

*I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.*

**NAME:** Bradley Bishop

**Signed on:** 02/23/2021

**Title:** Regulatory

**Street Address:** PO Box 5270

**City:** Hobbs

**State:** NM

**Zip:** 88260

**Phone:** (575)393-5905

**Email address:** bbishop@mewbourne.com

#### Field Representative

<b>Well Name:</b> BLACK SHEEP 4-33 B3MD FED COM	<b>Well Location:</b> T22S / R34E / SEC 4 / SWSW / 32.4140341 / -103.4820317	<b>County or Parish/State:</b> LEA / NM
<b>Well Number:</b> 1H	<b>Type of Well:</b> OIL WELL	<b>Allottee or Tribe Name:</b>
<b>Lease Number:</b> NMNM0381970	<b>Unit or CA Name:</b>	<b>Unit or CA Number:</b>
<b>US Well Number:</b> 3002546395	<b>Well Status:</b> Approved Application for Permit to Drill	<b>Operator:</b> MEWBOURNE OIL COMPANY

**Representative Name:**

**Street Address:**

**City:**

**State:**

**Zip:**

**Phone:**

**Email address:**

### NOI Attachments

#### Procedure Description

Black\_Sheep\_4\_33\_B3MD\_Fed\_Com\_1H\_Sundry\_20210223171227.doc

Black\_Sheep\_4\_33\_B3MD\_Fed\_Com\_1H\_Dir\_Plot\_20210223171203.pdf

Black\_Sheep\_4\_33\_B3MD\_Fed\_Com\_1H\_Dir\_Plan\_20210223171203.pdf

Black\_Sheep\_4\_33\_B3MD\_Fed\_Com\_1H\_C\_102\_20210223171155.pdf

### Conditions of Approval

#### Additional Reviews

BLACK\_SHEEP\_4\_33\_B3MD\_FED\_COM\_1H\_Sundry\_1516252\_\_Drilling\_COA\_OTA\_20210226164526.pdf



<b>Well Name:</b> BLACK SHEEP 4-33 B3MD FED COM	<b>Well Location:</b> T22S / R34E / SEC 4 / SWSW / 32.4140341 / -103.4820317	<b>County or Parish/State:</b> LEA / NM
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<b>Lease Number:</b> NMNM0381970	<b>Unit or CA Name:</b>	<b>Unit or CA Number:</b>
<b>US Well Number:</b> 3002546395	<b>Well Status:</b> Approved Application for Permit to Drill	<b>Operator:</b> MEWBOURNE OIL COMPANY

**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:** TAYLOR**Signed on:** FEB 23, 2021 05:12 PM**Name:** MEWBOURNE OIL COMPANY**Title:** Engineer**Street Address:** PO Box 5270**City:** Hobbs**State:** NM**Phone:** (575) 393-5905**Email address:****Field Representative****Representative Name:****Street Address:****City:****State:****Zip:****Phone:****Email address:****BLM Point of Contact****BLM POC Name:** CHRISTOPHER WALLS**BLM POC Title:** Petroleum Engineer**BLM POC Phone:** 5752342234**BLM POC Email Address:** cwalls@blm.gov**Disposition:** Approved**Disposition Date:** 03/01/2021**Signature:** Chris Walls

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

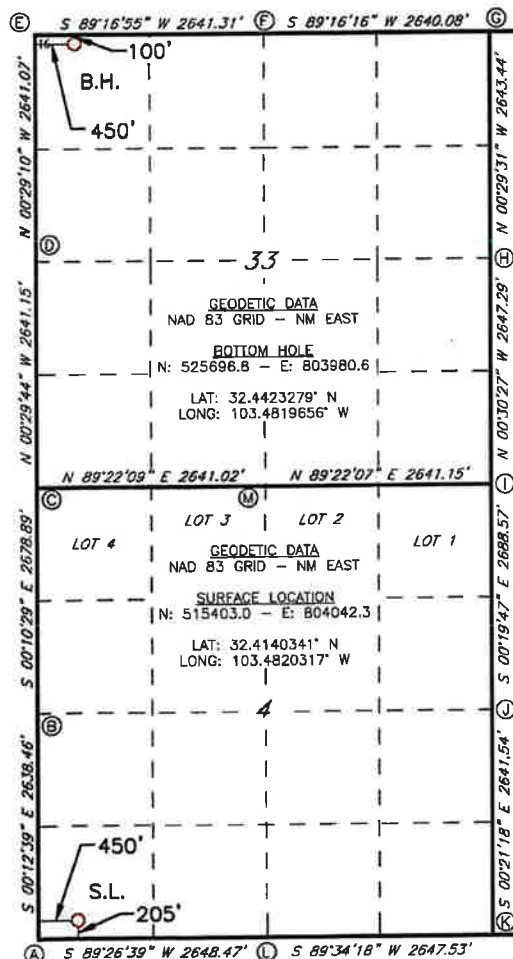
Form C-102  
Revised August 1, 2011  
Submit one copy to appropriate  
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number <b>30-025-46395</b>		2 Pool Code <b>28430</b>		3 Pool Name <b>Gramma Ridge Bone Springs</b>	
4 Property Code <b>326130</b>		5 Property Name <b>BLACK SHEEP 4/33 B3MD FED COM</b>			6 Well Number <b>1H</b>
7 OGRID NO. <b>14744</b>		8 Operator Name <b>MEWBOURNE OIL COMPANY</b>			9 Elevation <b>3608'</b>
10 Surface Location					
UL or lot no. <b>M</b>	Section <b>4</b>	Township <b>22S</b>	Range <b>34E</b>	Lot Idn	Feet from the <b>205</b>
		North/South line <b>SOUTH</b>		Feet From the <b>450</b>	East/West line <b>WEST</b>
				County <b>LEA</b>	
11 Bottom Hole Location If Different From Surface					
UL or lot no. <b>D</b>	Section <b>33</b>	Township <b>21S</b>	Range <b>34E</b>	Lot Idn	Feet from the <b>100</b>
		North/South line <b>NORTH</b>		Feet from the <b>450</b>	East/West line <b>WEST</b>
				County <b>LEA</b>	
12 Dedicated Acres <b>320</b>		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: *Andrew Taylor* Date: *2/23/2021*  
Printed Name: *Andrew Taylor*  
E-mail Address: *ataylor@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.

09-21-2018

Date of Survey

Signature and Seal of Professional Surveyor

19680

Certificate Number

REV: BH MOVE/NAME CHANGE 2/17/21

Job No: L518091087R

## **Mewbourne Oil Company**

**Lea County, New Mexico NAD 83**

**Black Sheep 4/33 B3MD Fed Com #1H**

**Sec 4, T22S, R34E**

**SHL: 205' FSL & 450' FWL, Sec 4**

**BHL: 100' FNL & 450' FWL, Sec 33**

**Plan: Design #1**

## **Standard Planning Report**

**23 February, 2021**

## Planning Report

<b>Database:</b>	Hobbs	<b>Local Co-ordinate Reference:</b>	Site Black Sheep 4/33 B3MD Fed Com #1H
<b>Company:</b>	Mewbourne Oil Company	<b>TVD Reference:</b>	WELL @ 3636.0usft (Original Well Elev)
<b>Project:</b>	Lea County, New Mexico NAD 83	<b>MD Reference:</b>	WELL @ 3636.0usft (Original Well Elev)
<b>Site:</b>	Black Sheep 4/33 B3MD Fed Com #1H	<b>North Reference:</b>	Grid
<b>Well:</b>	Sec 4, T22S, R34E	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	BHL: 100' FNL & 450' FWL, Sec 33		
<b>Design:</b>	Design #1		

<b>Project</b>	Lea County, New Mexico NAD 83		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	New Mexico Eastern Zone		

<b>Site</b>	Black Sheep 4/33 B3MD Fed Com #1H			
<b>Site Position:</b>		<b>Northing:</b>	515,403.00 usft	<b>Latitude:</b> 32.4140340
<b>From:</b>	Map	<b>Easting:</b>	804,042.00 usft	<b>Longitude:</b> -103.4820325
<b>Position Uncertainty:</b>	0.0 usft	<b>Slot Radius:</b>	13-3/16 "	<b>Grid Convergence:</b> 0.46 °

<b>Well</b>	Sec 4, T22S, R34E			
<b>Well Position</b>	<b>+N/-S</b>	0.0 usft	<b>Northing:</b>	515,403.00 usft
	<b>+E/-W</b>	0.0 usft	<b>Easting:</b>	804,042.00 usft
<b>Position Uncertainty</b>	0.0 usft		<b>Wellhead Elevation:</b>	3,636.0 usft
			<b>Ground Level:</b>	3,608.0 usft

<b>Wellbore</b>	BHL: 100' FNL & 450' FWL, Sec 33				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	12/31/2014	7.12	60.29	48,384

<b>Design</b>	Design #1			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PROTOTYPE	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>
	0.0	0.0	0.0	359.66

<b>Plan Sections</b>										
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	
5,650.0	0.00	0.00	5,650.0	0.0	0.0	0.00	0.00	0.00	0.00	
5,759.0	2.18	179.71	5,758.9	-2.1	0.0	2.00	2.00	0.00	179.71	
10,777.8	2.18	179.71	10,774.1	-192.9	1.0	0.00	0.00	0.00	0.00	
10,886.7	0.00	0.00	10,883.0	-195.0	1.0	2.00	-2.00	0.00	180.00	KOP: 10' FSL & 450' I
11,774.8	88.79	359.66	11,456.0	366.0	-2.3	10.00	10.00	0.00	-0.34	
21,705.2	88.79	359.66	11,666.0	10,294.0	-61.0	0.00	0.00	0.00	0.00	BHL: 100' FNL & 450'

## Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Black Sheep 4/33 B3MD Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3636.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	MD Reference:	WELL @ 3636.0usft (Original Well Elev)
Site:	Black Sheep 4/33 B3MD Fed Com #1H	North Reference:	Grid
Wells:	Sec 4, T22S, R34E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 100' FNL & 450' FWL, Sec 33		
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)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
SHL: 205' FSL & 450' FWL (4)										
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	
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00	
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00	
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00	
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00	



## Planning Report

<b>Database:</b>	Hobbs	<b>Local Co-ordinate Reference:</b>	Site Black Sheep 4/33 B3MD Fed Com #1H
<b>Company:</b>	Mewbourne Oil Company	<b>TVD Reference:</b>	WELL @ 3636.0usft (Original Well Elev)
<b>Project:</b>	Lea County, New Mexico NAD 83	<b>MD Reference:</b>	WELL @ 3636.0usft (Original Well Elev)
<b>Site:</b>	Black Sheep 4/33 B3MD Fed Com #1H	<b>North Reference:</b>	Grid
<b>Well:</b>	Sec 4, T22S, R34E	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	BHL: 100' FNL & 450' FWL, Sec 33		
<b>Design:</b>	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)
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00
5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.0	0.00	0.00	0.00
5,500.0	0.00	0.00	5,500.0	0.0	0.0	0.0	0.00	0.00	0.00
5,600.0	0.00	0.00	5,600.0	0.0	0.0	0.0	0.00	0.00	0.00
5,650.0	0.00	0.00	5,650.0	0.0	0.0	0.0	0.00	0.00	0.00
5,700.0	1.00	179.71	5,700.0	-0.4	0.0	-0.4	2.00	2.00	0.00
5,759.0	2.18	179.71	5,758.9	-2.1	0.0	-2.1	2.00	2.00	0.00
5,800.0	2.18	179.71	5,799.9	-3.6	0.0	-3.6	0.00	0.00	0.00
5,900.0	2.18	179.71	5,899.9	-7.4	0.0	-7.4	0.00	0.00	0.00
6,000.0	2.18	179.71	5,999.8	-11.2	0.1	-11.2	0.00	0.00	0.00
6,100.0	2.18	179.71	6,099.7	-15.0	0.1	-15.0	0.00	0.00	0.00
6,200.0	2.18	179.71	6,199.7	-18.8	0.1	-18.8	0.00	0.00	0.00
6,300.0	2.18	179.71	6,299.6	-22.6	0.1	-22.6	0.00	0.00	0.00
6,400.0	2.18	179.71	6,399.5	-26.4	0.1	-26.4	0.00	0.00	0.00
6,500.0	2.18	179.71	6,499.4	-30.3	0.2	-30.3	0.00	0.00	0.00
6,600.0	2.18	179.71	6,599.4	-34.1	0.2	-34.1	0.00	0.00	0.00
6,700.0	2.18	179.71	6,699.3	-37.9	0.2	-37.9	0.00	0.00	0.00
6,800.0	2.18	179.71	6,799.2	-41.7	0.2	-41.7	0.00	0.00	0.00
6,900.0	2.18	179.71	6,899.1	-45.5	0.2	-45.5	0.00	0.00	0.00
7,000.0	2.18	179.71	6,999.1	-49.3	0.3	-49.3	0.00	0.00	0.00
7,100.0	2.18	179.71	7,099.0	-53.1	0.3	-53.1	0.00	0.00	0.00
7,200.0	2.18	179.71	7,198.9	-56.9	0.3	-56.9	0.00	0.00	0.00
7,300.0	2.18	179.71	7,298.9	-60.7	0.3	-60.7	0.00	0.00	0.00
7,400.0	2.18	179.71	7,398.8	-64.5	0.3	-64.5	0.00	0.00	0.00
7,500.0	2.18	179.71	7,498.7	-68.3	0.4	-68.3	0.00	0.00	0.00
7,600.0	2.18	179.71	7,598.6	-72.1	0.4	-72.1	0.00	0.00	0.00
7,700.0	2.18	179.71	7,698.6	-75.9	0.4	-75.9	0.00	0.00	0.00
7,800.0	2.18	179.71	7,798.5	-79.7	0.4	-79.7	0.00	0.00	0.00
7,900.0	2.18	179.71	7,898.4	-83.5	0.4	-83.5	0.00	0.00	0.00
8,000.0	2.18	179.71	7,998.4	-87.3	0.4	-87.3	0.00	0.00	0.00
8,100.0	2.18	179.71	8,098.3	-91.1	0.5	-91.1	0.00	0.00	0.00
8,200.0	2.18	179.71	8,198.2	-94.9	0.5	-94.9	0.00	0.00	0.00
8,300.0	2.18	179.71	8,298.1	-98.7	0.5	-98.7	0.00	0.00	0.00
8,400.0	2.18	179.71	8,398.1	-102.5	0.5	-102.5	0.00	0.00	0.00
8,500.0	2.18	179.71	8,498.0	-106.3	0.5	-106.3	0.00	0.00	0.00
8,600.0	2.18	179.71	8,597.9	-110.1	0.6	-110.1	0.00	0.00	0.00
8,700.0	2.18	179.71	8,697.8	-113.9	0.6	-113.9	0.00	0.00	0.00
8,800.0	2.18	179.71	8,797.8	-117.7	0.6	-117.7	0.00	0.00	0.00
8,900.0	2.18	179.71	8,897.7	-121.5	0.6	-121.5	0.00	0.00	0.00
9,000.0	2.18	179.71	8,997.6	-125.3	0.6	-125.3	0.00	0.00	0.00
9,100.0	2.18	179.71	9,097.6	-129.1	0.7	-129.1	0.00	0.00	0.00
9,200.0	2.18	179.71	9,197.5	-132.9	0.7	-132.9	0.00	0.00	0.00
9,300.0	2.18	179.71	9,297.4	-136.7	0.7	-136.7	0.00	0.00	0.00
9,400.0	2.18	179.71	9,397.3	-140.5	0.7	-140.5	0.00	0.00	0.00
9,500.0	2.18	179.71	9,497.3	-144.3	0.7	-144.3	0.00	0.00	0.00
9,600.0	2.18	179.71	9,597.2	-148.1	0.8	-148.1	0.00	0.00	0.00
9,700.0	2.18	179.71	9,697.1	-151.9	0.8	-151.9	0.00	0.00	0.00
9,800.0	2.18	179.71	9,797.1	-155.7	0.8	-155.7	0.00	0.00	0.00
9,900.0	2.18	179.71	9,897.0	-159.5	0.8	-159.6	0.00	0.00	0.00
10,000.0	2.18	179.71	9,996.9	-163.4	0.8	-163.4	0.00	0.00	0.00
10,100.0	2.18	179.71	10,096.8	-167.2	0.9	-167.2	0.00	0.00	0.00
10,200.0	2.18	179.71	10,196.8	-171.0	0.9	-171.0	0.00	0.00	0.00
10,300.0	2.18	179.71	10,296.7	-174.8	0.9	-174.8	0.00	0.00	0.00
10,400.0	2.18	179.71	10,396.6	-178.6	0.9	-178.6	0.00	0.00	0.00

## Planning Report

<b>Database:</b>	Hobbs	<b>Local Co-ordinate Reference:</b>	Site Black Sheep 4/33 B3MD Fed Com #1H
<b>Company:</b>	Mewbourne Oil Company	<b>TVD Reference:</b>	WELL @ 3636.0usft (Original Well Elev)
<b>Project:</b>	Lea County, New Mexico NAD 83	<b>MD Reference:</b>	WELL @ 3636.0usft (Original Well Elev)
<b>Site:</b>	Black Sheep 4/33 B3MD Fed Com #1H	<b>North Reference:</b>	Grid
<b>Well:</b>	Sec 4, T22S, R34E	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	BHL: 100' FNL & 450' FWL, Sec 33		
<b>Design:</b>	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)
10,500.0	2.18	179.71	10,496.5	-182.4	0.9	-182.4	0.00	0.00	0.00
10,600.0	2.18	179.71	10,596.5	-186.2	1.0	-186.2	0.00	0.00	0.00
10,700.0	2.18	179.71	10,696.4	-190.0	1.0	-190.0	0.00	0.00	0.00
10,777.8	2.18	179.71	10,774.1	-192.9	1.0	-192.9	0.00	0.00	0.00
10,800.0	1.73	179.71	10,796.3	-193.7	1.0	-193.7	2.00	-2.00	0.00
10,886.7	0.00	0.00	10,883.0	-195.0	1.0	-195.0	2.00	-2.00	0.00
<b>KOP: 10' FSL &amp; 450' FWL (4)</b>									
10,900.0	1.33	359.66	10,896.3	-194.8	1.0	-194.8	10.00	10.00	0.00
11,000.0	11.33	359.66	10,995.6	-183.8	0.9	-183.8	10.00	10.00	0.00
11,100.0	21.32	359.66	11,091.4	-155.8	0.8	-155.8	10.00	10.00	0.00
11,200.0	31.32	359.66	11,180.9	-111.5	0.5	-111.5	10.00	10.00	0.00
11,212.2	32.54	359.66	11,191.3	-105.0	0.5	-105.0	10.00	10.00	0.00
<b>FTP: 100' FSL &amp; 450' FWL (4)</b>									
11,300.0	41.32	359.66	11,261.4	-52.3	0.2	-52.3	10.00	10.00	0.00
11,400.0	51.32	359.66	11,330.4	19.9	-0.3	19.9	10.00	10.00	0.00
11,500.0	61.31	359.66	11,385.8	103.0	-0.8	103.0	10.00	10.00	0.00
11,600.0	71.31	359.66	11,425.9	194.5	-1.3	194.5	10.00	10.00	0.00
11,700.0	81.31	359.66	11,449.5	291.5	-1.9	291.5	10.00	10.00	0.00
11,774.8	88.79	359.66	11,456.0	366.0	-2.3	366.0	9.99	9.99	0.00
<b>LP: 571' FSL &amp; 450' FWL (4)</b>									
11,800.0	88.79	359.66	11,456.5	391.1	-2.5	391.2	0.00	0.00	0.00
11,900.0	88.79	359.66	11,458.6	491.1	-3.1	491.1	0.00	0.00	0.00
12,000.0	88.79	359.66	11,460.8	591.1	-3.6	591.1	0.00	0.00	0.00
12,100.0	88.79	359.66	11,462.9	691.1	-4.2	691.1	0.00	0.00	0.00
12,200.0	88.79	359.66	11,465.0	791.0	-4.8	791.1	0.00	0.00	0.00
12,300.0	88.79	359.66	11,467.1	891.0	-5.4	891.0	0.00	0.00	0.00
12,400.0	88.79	359.66	11,469.2	991.0	-6.0	991.0	0.00	0.00	0.00
12,500.0	88.79	359.66	11,471.3	1,091.0	-6.6	1,091.0	0.00	0.00	0.00
12,600.0	88.79	359.66	11,473.5	1,191.0	-7.2	1,191.0	0.00	0.00	0.00
12,700.0	88.79	359.66	11,475.6	1,290.9	-7.8	1,291.0	0.00	0.00	0.00
12,800.0	88.79	359.66	11,477.7	1,390.9	-8.4	1,390.9	0.00	0.00	0.00
12,900.0	88.79	359.66	11,479.8	1,490.9	-9.0	1,490.9	0.00	0.00	0.00
13,000.0	88.79	359.66	11,481.9	1,590.9	-9.6	1,590.9	0.00	0.00	0.00
13,100.0	88.79	359.66	11,484.0	1,690.8	-10.1	1,690.9	0.00	0.00	0.00
13,200.0	88.79	359.66	11,486.1	1,790.8	-10.7	1,790.8	0.00	0.00	0.00
13,300.0	88.79	359.66	11,488.3	1,890.8	-11.3	1,890.8	0.00	0.00	0.00
13,400.0	88.79	359.66	11,490.4	1,990.8	-11.9	1,990.8	0.00	0.00	0.00
13,500.0	88.79	359.66	11,492.5	2,090.7	-12.5	2,090.8	0.00	0.00	0.00
13,600.0	88.79	359.66	11,494.6	2,190.7	-13.1	2,190.8	0.00	0.00	0.00
13,700.0	88.79	359.66	11,496.7	2,290.7	-13.7	2,290.7	0.00	0.00	0.00
13,800.0	88.79	359.66	11,498.8	2,390.7	-14.3	2,390.7	0.00	0.00	0.00
13,842.1	88.79	359.66	11,499.7	2,432.8	-14.5	2,432.8	0.00	0.00	0.00
<b>PPP2: 2679' FNL &amp; 450' FWL (4)</b>									
13,900.0	88.79	359.66	11,500.9	2,490.6	-14.9	2,490.7	0.00	0.00	0.00
14,000.0	88.79	359.66	11,503.1	2,590.6	-15.5	2,590.7	0.00	0.00	0.00
14,100.0	88.79	359.66	11,505.2	2,690.6	-16.1	2,690.6	0.00	0.00	0.00
14,200.0	88.79	359.66	11,507.3	2,790.6	-16.6	2,790.6	0.00	0.00	0.00
14,300.0	88.79	359.66	11,509.4	2,890.5	-17.2	2,890.6	0.00	0.00	0.00
14,400.0	88.79	359.66	11,511.5	2,990.5	-17.8	2,990.6	0.00	0.00	0.00
14,500.0	88.79	359.66	11,513.6	3,090.5	-18.4	3,090.5	0.00	0.00	0.00
14,600.0	88.79	359.66	11,515.7	3,190.5	-19.0	3,190.5	0.00	0.00	0.00
14,700.0	88.79	359.66	11,517.9	3,290.4	-19.6	3,290.5	0.00	0.00	0.00
14,800.0	88.79	359.66	11,520.0	3,390.4	-20.2	3,390.5	0.00	0.00	0.00



## Planning Report

<b>Database:</b>	Hobbs	<b>Local Co-ordinate Reference:</b>	Site Black Sheep 4/33 B3MD Fed Com #1H
<b>Company:</b>	Mewbourne Oil Company	<b>TVD Reference:</b>	WELL @ 3636.0usft (Original Well Elev)
<b>Project:</b>	Lea County, New Mexico NAD 83	<b>MD Reference:</b>	WELL @ 3636.0usft (Original Well Elev)
<b>Site:</b>	Black Sheep 4/33 B3MD Fed Com #1H	<b>North Reference:</b>	Grid
<b>Well:</b>	Sec 4, T22S, R34E	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	BHL: 100' FNL & 450' FWL, Sec 33		
<b>Design:</b>	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)
14,900.0	88.79	359.66	11,522.1	3,490.4	-20.8	3,490.5	0.00	0.00	0.00
15,000.0	88.79	359.66	11,524.2	3,590.4	-21.4	3,590.4	0.00	0.00	0.00
15,100.0	88.79	359.66	11,526.3	3,690.3	-22.0	3,690.4	0.00	0.00	0.00
15,200.0	88.79	359.66	11,528.4	3,790.3	-22.6	3,790.4	0.00	0.00	0.00
15,300.0	88.79	359.66	11,530.5	3,890.3	-23.1	3,890.4	0.00	0.00	0.00
15,400.0	88.79	359.66	11,532.7	3,990.3	-23.7	3,990.3	0.00	0.00	0.00
15,500.0	88.79	359.66	11,534.8	4,090.3	-24.3	4,090.3	0.00	0.00	0.00
15,600.0	88.79	359.66	11,536.9	4,190.2	-24.9	4,190.3	0.00	0.00	0.00
15,700.0	88.79	359.66	11,539.0	4,290.2	-25.5	4,290.3	0.00	0.00	0.00
15,800.0	88.79	359.66	11,541.1	4,390.2	-26.1	4,390.3	0.00	0.00	0.00
15,900.0	88.79	359.66	11,543.2	4,490.2	-26.7	4,490.2	0.00	0.00	0.00
16,000.0	88.79	359.66	11,545.4	4,590.1	-27.3	4,590.2	0.00	0.00	0.00
16,100.0	88.79	359.66	11,547.5	4,690.1	-27.9	4,690.2	0.00	0.00	0.00
16,200.0	88.79	359.66	11,549.6	4,790.1	-28.5	4,790.2	0.00	0.00	0.00
16,300.0	88.79	359.66	11,551.7	4,890.1	-29.1	4,890.1	0.00	0.00	0.00
16,400.0	88.79	359.66	11,553.8	4,990.0	-29.6	4,990.1	0.00	0.00	0.00
16,500.0	88.79	359.66	11,555.9	5,090.0	-30.2	5,090.1	0.00	0.00	0.00
16,521.8	88.79	359.66	11,556.4	5,111.8	-30.4	5,111.9	0.00	0.00	0.00
PPP3: 0' FSL & 450' FWL (33)									
16,600.0	88.79	359.66	11,558.0	5,190.0	-30.8	5,190.1	0.00	0.00	0.00
16,700.0	88.79	359.66	11,560.2	5,290.0	-31.4	5,290.1	0.00	0.00	0.00
16,800.0	88.79	359.66	11,562.3	5,389.9	-32.0	5,390.0	0.00	0.00	0.00
16,900.0	88.79	359.66	11,564.4	5,489.9	-32.6	5,490.0	0.00	0.00	0.00
17,000.0	88.79	359.66	11,566.5	5,589.9	-33.2	5,590.0	0.00	0.00	0.00
17,100.0	88.79	359.66	11,568.6	5,689.9	-33.8	5,690.0	0.00	0.00	0.00
17,200.0	88.79	359.66	11,570.7	5,789.8	-34.4	5,789.9	0.00	0.00	0.00
17,300.0	88.79	359.66	11,572.8	5,889.8	-35.0	5,889.9	0.00	0.00	0.00
17,400.0	88.79	359.66	11,575.0	5,989.8	-35.6	5,989.9	0.00	0.00	0.00
17,500.0	88.79	359.66	11,577.1	6,089.8	-36.1	6,089.9	0.00	0.00	0.00
17,600.0	88.79	359.66	11,579.2	6,189.7	-36.7	6,189.9	0.00	0.00	0.00
17,700.0	88.79	359.66	11,581.3	6,289.7	-37.3	6,289.8	0.00	0.00	0.00
17,800.0	88.79	359.66	11,583.4	6,389.7	-37.9	6,389.8	0.00	0.00	0.00
17,900.0	88.79	359.66	11,585.5	6,489.7	-38.5	6,489.8	0.00	0.00	0.00
18,000.0	88.79	359.66	11,587.6	6,589.7	-39.1	6,589.8	0.00	0.00	0.00
18,100.0	88.79	359.66	11,589.8	6,689.6	-39.7	6,689.7	0.00	0.00	0.00
18,200.0	88.79	359.66	11,591.9	6,789.6	-40.3	6,789.7	0.00	0.00	0.00
18,300.0	88.79	359.66	11,594.0	6,889.6	-40.9	6,889.7	0.00	0.00	0.00
18,400.0	88.79	359.66	11,596.1	6,989.6	-41.5	6,989.7	0.00	0.00	0.00
18,500.0	88.79	359.66	11,598.2	7,089.5	-42.1	7,089.7	0.00	0.00	0.00
18,600.0	88.79	359.66	11,600.3	7,189.5	-42.6	7,189.6	0.00	0.00	0.00
18,700.0	88.79	359.66	11,602.4	7,289.5	-43.2	7,289.6	0.00	0.00	0.00
18,800.0	88.79	359.66	11,604.6	7,389.5	-43.8	7,389.6	0.00	0.00	0.00
18,900.0	88.79	359.66	11,606.7	7,489.4	-44.4	7,489.6	0.00	0.00	0.00
19,000.0	88.79	359.66	11,608.8	7,589.4	-45.0	7,589.5	0.00	0.00	0.00
19,100.0	88.79	359.66	11,610.9	7,689.4	-45.6	7,689.5	0.00	0.00	0.00
19,200.0	88.79	359.66	11,613.0	7,789.4	-46.2	7,789.5	0.00	0.00	0.00
19,300.0	88.79	359.66	11,615.1	7,889.3	-46.8	7,889.5	0.00	0.00	0.00
19,400.0	88.79	359.66	11,617.3	7,989.3	-47.4	7,989.5	0.00	0.00	0.00
19,500.0	88.79	359.66	11,619.4	8,089.3	-48.0	8,089.4	0.00	0.00	0.00
19,600.0	88.79	359.66	11,621.5	8,189.3	-48.6	8,189.4	0.00	0.00	0.00
19,700.0	88.79	359.66	11,623.6	8,289.2	-49.1	8,289.4	0.00	0.00	0.00
19,800.0	88.79	359.66	11,625.7	8,389.2	-49.7	8,389.4	0.00	0.00	0.00
19,900.0	88.79	359.66	11,627.8	8,489.2	-50.3	8,489.3	0.00	0.00	0.00
20,000.0	88.79	359.66	11,629.9	8,589.2	-50.9	8,589.3	0.00	0.00	0.00

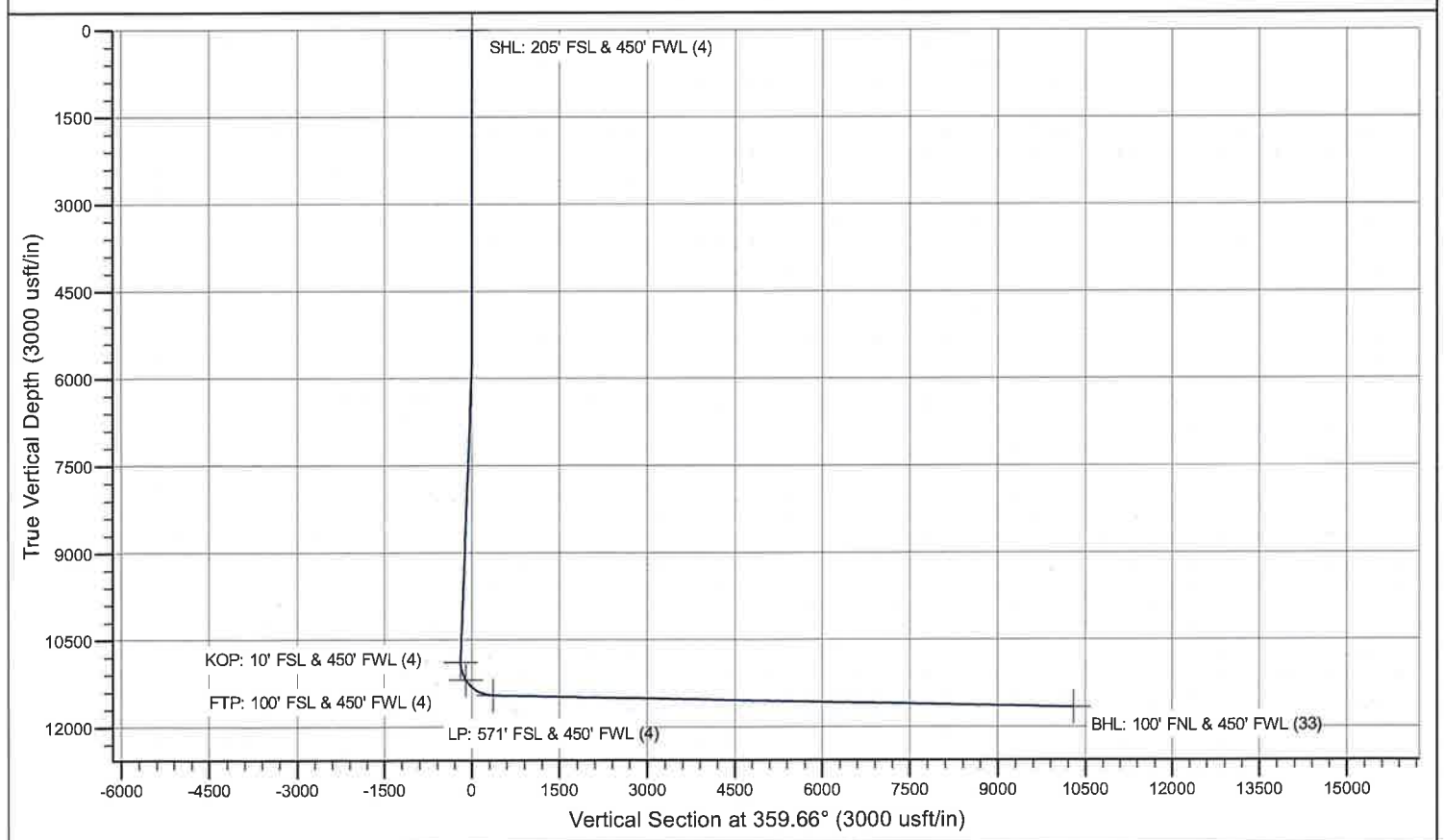
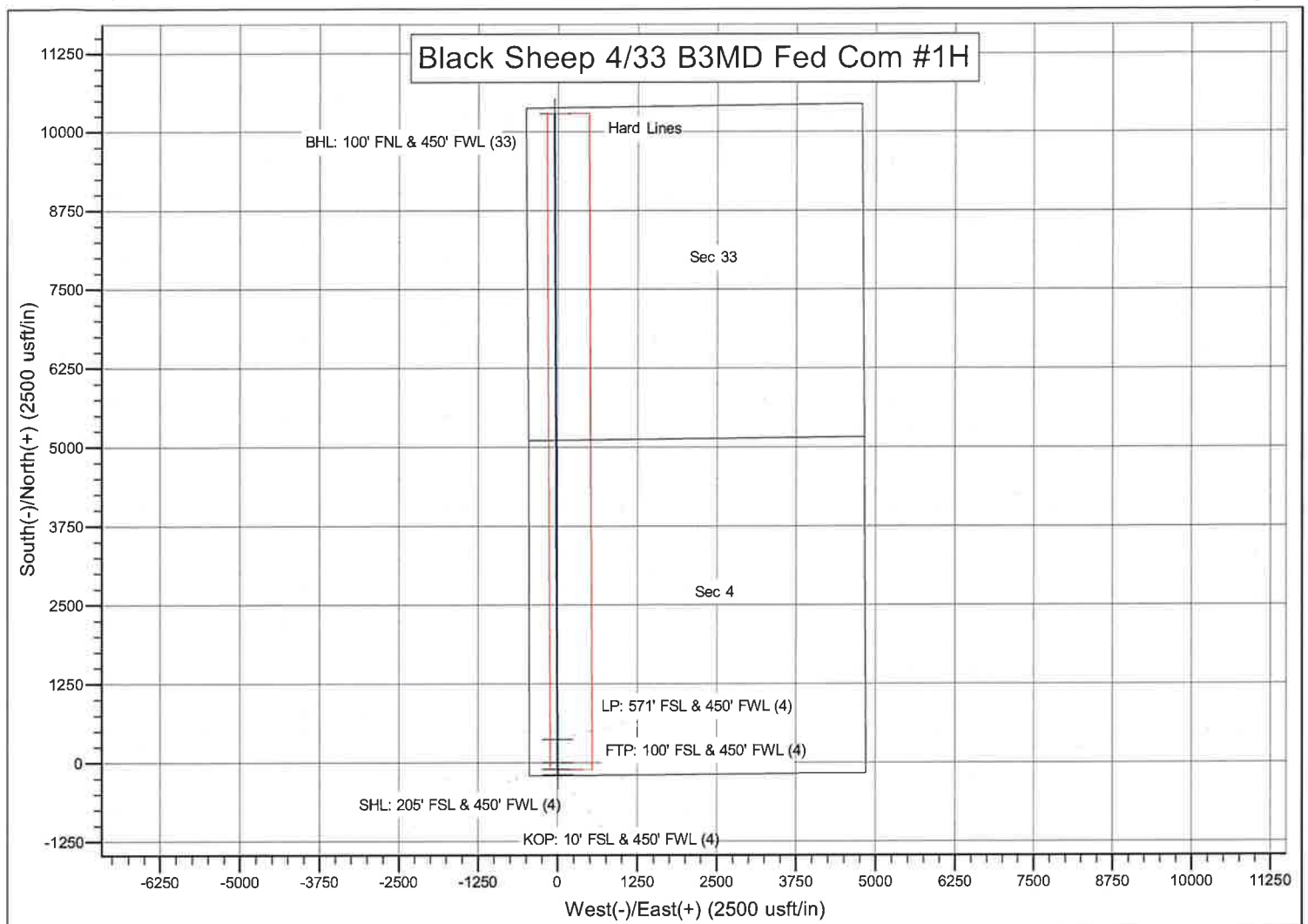
## Planning Report

<b>Database:</b>	Hobbs	<b>Local Co-ordinate Reference:</b>	Site Black Sheep 4/33 B3MD Fed Com #1H
<b>Company:</b>	Mewbourne Oil Company	<b>TVD Reference:</b>	WELL @ 3636.0usft (Original Well Elev)
<b>Project:</b>	Lea County, New Mexico NAD 83	<b>MD Reference:</b>	WELL @ 3636.0usft (Original Well Elev)
<b>Site:</b>	Black Sheep 4/33 B3MD Fed Com #1H	<b>North Reference:</b>	Grid
<b>Well:</b>	Sec 4, T22S, R34E	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	BHL: 100' FNL & 450' FWL, Sec 33		
<b>Design:</b>	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)	
20,100.0	88.79	359.66	11,632.1	8,689.1	-51.5	8,689.3	0.00	0.00	0.00	
20,200.0	88.79	359.66	11,634.2	8,789.1	-52.1	8,789.3	0.00	0.00	0.00	
20,300.0	88.79	359.66	11,636.3	8,889.1	-52.7	8,889.3	0.00	0.00	0.00	
20,400.0	88.79	359.66	11,638.4	8,989.1	-53.3	8,989.2	0.00	0.00	0.00	
20,500.0	88.79	359.66	11,640.5	9,089.0	-53.9	9,089.2	0.00	0.00	0.00	
20,600.0	88.79	359.66	11,642.6	9,189.0	-54.5	9,189.2	0.00	0.00	0.00	
20,700.0	88.79	359.66	11,644.7	9,289.0	-55.1	9,289.2	0.00	0.00	0.00	
20,800.0	88.79	359.66	11,646.9	9,389.0	-55.7	9,389.1	0.00	0.00	0.00	
20,900.0	88.79	359.66	11,649.0	9,489.0	-56.2	9,489.1	0.00	0.00	0.00	
21,000.0	88.79	359.66	11,651.1	9,588.9	-56.8	9,589.1	0.00	0.00	0.00	
21,100.0	88.79	359.66	11,653.2	9,688.9	-57.4	9,689.1	0.00	0.00	0.00	
21,200.0	88.79	359.66	11,655.3	9,788.9	-58.0	9,789.1	0.00	0.00	0.00	
21,300.0	88.79	359.66	11,657.4	9,888.9	-58.6	9,889.0	0.00	0.00	0.00	
21,400.0	88.79	359.66	11,659.5	9,988.8	-59.2	9,989.0	0.00	0.00	0.00	
21,500.0	88.79	359.66	11,661.7	10,088.8	-59.8	10,089.0	0.00	0.00	0.00	
21,600.0	88.79	359.66	11,663.8	10,188.8	-60.4	10,189.0	0.00	0.00	0.00	
21,700.0	88.79	359.66	11,665.9	10,288.8	-61.0	10,288.9	0.00	0.00	0.00	
21,705.2	88.79	359.66	11,666.0	10,294.0	-61.0	10,294.2	0.00	0.00	0.00	
BHL: 100' FNL & 450' FWL (33)										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
- hit/miss target										
- Shape										
SHL: 205' FSL & 450' FV	0.00	0.00	0.0	0.0	0.0	515,403.00	804,042.00	32.4140340	-103.4820325	
- plan hits target center										
- Point										
KOP: 10' FSL & 450' FW	0.00	0.00	10,883.0	-195.0	1.0	515,208.00	804,043.00	32.4134980	-103.4820343	
- plan hits target center										
- Point										
FTP: 100' FSL & 450' FV	0.00	0.00	11,191.4	-105.0	0.5	515,298.00	804,042.47	32.4137454	-103.4820337	
- plan hits target center										
- Point										
LP: 571' FSL & 450' FWI	0.00	0.00	11,456.0	366.0	-2.3	515,769.00	804,039.68	32.4150400	-103.4820306	
- plan hits target center										
- Point										
PPP2: 2679' FNL & 450'	0.00	0.00	11,499.7	2,432.8	-14.5	517,835.80	804,027.47	32.4207209	-103.4820168	
- plan hits target center										
- Point										
PPP3: 0' FSL & 450' FW	0.00	0.00	11,556.4	5,111.8	-30.4	520,514.80	804,011.63	32.4280846	-103.4819989	
- plan hits target center										
- Point										
BHL: 100' FNL & 450' FV	0.00	0.00	11,666.0	10,294.0	-61.0	525,697.00	803,981.00	32.4423286	-103.4819644	
- plan hits target center										
- Point										



**Mewbourne Oil Company, Black Sheep 4/33 B3MD Fed Com #1H****Sec 4, T22S, R34E****SL: 205' FSL & 450' FWL (Sec 4)****BHL: 100' FNL & 450' FWL (Sec 33)****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'	1495'	13.375"	48	H40	STC	1.13	2.53	3.68	6.19
17.5"	1495'	1782'	13.375"	54.5	J55	STC	1.39	3.35	32.94	54.67
12.25"	0'	3453'	9.625"	36	J55	LTC	1.13	1.96	2.16	2.68
12.25"	3453'	4393'	9.625"	40	J55	LTC	1.13	1.73	6.05	7.34
12.25"	4393'	5282'	9.625"	40	N80	LTC	1.13	2.09	15.27	18.98
12.25"	5282'	5600'	9.625"	40	HCL80	LTC	1.45	1.97	65.81	72.02
8.75"	0'	11,775'	7"	26	P110	LTC	1.35	1.72	2.26	2.71
6.125"	10,887'	21,706'	4.5"	13.5	P110	LTC	1.47	1.70	2.31	2.89
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?	Y
If yes, does production casing cement tie back a minimum of 50' above the Reef?	Y
Is well within the designated 4 string boundary.	N
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 <sup>rd</sup> string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 <sup>nd</sup> string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(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, Black Sheep 4/33 B3MD Fed Com #1H****Sec 4, T22S, R34E****SL: 205' FSL & 450' FWL (Sec 4)****BHL: 100' FNL & 450' FWL (Sec 33)****Cementing Program**

Casing	# Sks	Wt. lb/ gal	Yld ft <sup>3</sup> / sack	H <sub>2</sub> O gal/ sk	500# Comp. Strength (hours)	Slurry Description
Surf.	1045	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. Stg 1	215	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
ECP/DV Tool @ 3775'						
Inter. Stg 2	640	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
Prod.	450	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
Liner	435	11.2	2.97	18	16	Class C + 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	4287'	25%
Liner	10,887'	25%

## PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

<b>OPERATOR'S NAME:</b>	<b>MEWBOURNE OIL COMPANY</b>
<b>LEASE NO.:</b>	NMNM0381970
<b>WELL NAME &amp; NO.:</b>	BLACK SHEEP 4-33 B3MD FED COM 1H
<b>SURFACE HOLE FOOTAGE:</b>	205' FSL & 450' FWL
<b>BOTTOM HOLE FOOTAGE:</b>	100' FNL & 450' FWL
<b>LOCATION:</b>	Section 4, T. 22 S., R 34 E., NMPM
<b>COUNTY:</b>	Lea County, New Mexico

### COA

H2S	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Potash	<input checked="" type="radio"/> None	<input type="radio"/> Secretary	<input type="radio"/> R-111-P
Cave/Karst Potential	<input checked="" type="radio"/> Low	<input type="radio"/> Medium	<input type="radio"/> High
Variance	<input type="radio"/> None	<input checked="" type="radio"/> Flex Hose	<input type="radio"/> Other
Wellhead	<input type="radio"/> Conventional	<input checked="" type="radio"/> Multibowl	<input type="radio"/> Both
Other	<input type="checkbox"/> 4 String Area	<input checked="" type="checkbox"/> Capitan Reef	<input type="checkbox"/> WIPP
Other	<input checked="" type="checkbox"/> Fluid Filled	<input type="checkbox"/> Cement Squeeze	<input type="checkbox"/> Pilot Hole
Special Requirements	<input type="checkbox"/> Water Disposal	<input checked="" type="checkbox"/> COM	<input type="checkbox"/> Unit

### All Previous COAs Still Apply.

#### A. CASING

1. The 13-3/8 inch surface casing shall be set at approximately **1782 feet** (a minimum of **25 feet (Lea County)** into the Rustler Anhydrite and above the salt) and cemented to the surface.
  - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
  - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
  - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
  - d. If cement falls back, remedial cementing will be done prior to drilling out that string.

2. The minimum required fill of cement behind the 9-5/8 inch intermediate casing, which shall be set at approximately **5600 feet** is:

**Option 1 (Single Stage):**

- Cement to surface. If cement does not circulate see B.1.a, c-d above.  
**Excess cement calculates to -61%, additional cement might be required.**

**Option 2:**

Operator has proposed DV tool at depth of **3775'**, but will adjust cement proportionately if moved, the depth may be adjusted as long as the cement is changed proportionally. DV tool shall be set a minimum of 50' below previous shoe and a minimum of 200' above current shoe. Operator shall submit sundry if DV tool depth cannot be set in this range. If an ECP is used, it is to be set a minimum of 50' below the shoe to provide cement across the shoe. If it cannot be set below the shoe, a CBL shall be run to verify cement coverage. The DV tool may be cancelled if cement circulates to surface on the first stage.

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
  - b. Second stage above DV tool:
    - Cement to surface. If cement does not circulate, contact the appropriate BLM office.
- ❖ **Special Capitan Reef requirements.** If lost circulation (50% or greater) occurs below the Base of the Salt, the operator shall do the following:
- Switch to fresh water mud to protect the Capitan Reef and use fresh water mud until setting the intermediate casing. The appropriate BLM office is to be notified for a PET to witness the switch to fresh water.
  - Daily drilling reports from the Base of the Salt to the setting of the intermediate casing are to be submitted to the BLM CFO engineering staff via e-mail by 0800 hours each morning. Any lost circulation encountered is to be recorded on these drilling reports. The daily drilling report should show mud volume per shift/tour. Failure to submit these reports will result in an Incidence of Non-Compliance being issued for failure to comply with the Conditions of Approval. If not already planned, the operator shall run a caliper survey for the intermediate well bore and submit to the appropriate BLM office.



**Production casing must be kept fluid filled to meet BLM minimum collapse requirement.**

3. The minimum required fill of cement behind the 7 inch production casing is:
  - Cement should tie-back at least **50 feet** above the Capitan Reef. Operator shall provide method of verification.  
**Excess cement calculates to 25%, additional cement might be required.**
4. The minimum required fill of cement behind the 4-1/2 inch production liner is:
  - Cement should tie-back **100 feet** into the previous casing. Operator shall provide method of verification.

## **B. PRESSURE CONTROL**

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.
  - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
  - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
  - c. Manufacturer representative shall install the test plug for the initial BOP test.
  - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
  - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

**C. SPECIAL REQUIREMENT (S)****Communitization Agreement**

- The operator will submit a Communitization Agreement to the Carlsbad Field Office, 620 E Greene St. Carlsbad, New Mexico 88220, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

**OTA02262021**

**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**

CONDITIONS  
  
Action 24130

CONDITIONS OF APPROVAL

Operator:	MEWBOURNE OIL CO	P.O. Box 5270	Hobbs, NM88241	OGRID:	14744	Action Number:	24130	Action Type:	C-103A
OCD Reviewer									Condition
pkautz									None