



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

Sundry Print Report

02/08/2021

Well Name: ZACH 17 W0MD FED	Well Location: T26S / R33E / SEC 17 / SWSW / 32.0370135 / -103.5986299	County or Parish/State: LEA / NM
Well Number: 2H	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMNM0160973	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002547530	Well Status: Approved Application for Permit to Drill	Operator: MEWBOURNE OIL COMPANY

Notice of Intent

Type of Submission: Notice of Intent**Type of Action** APD Change**Date Sundry Submitted:** 02/04/2021**Time Sundry Submitted:** 10:39**Date proposed operation will begin:** 02/05/2021

Procedure Description: MOC would like to change the well name & BHL. Well name will be Zach 17/8 W0MD Fed Com #2H. BHL will be @ 100' FNL & 990' FWL, Sec 8 T26S R33E.

Application

Well Name: ZACH 17 W0MD FED	Well Location: T26S / R33E / SEC 17 / SWSW / 32.0370135 / -103.5986299	County or Parish/State: LEA / NM
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Section 1 - General

APD ID: 10400045689	Tie to previous NOS? N	Submission Date: 08/26/2019
BLM Office: CARLSBAD	User: Bradley Bishop	Title: Regulatory
Federal/Indian APD: FED	Is the first lease penetrated for production Federal or Indian? FED	
Lease number: NMNM0160973	Lease Acres:	
Surface access agreement in place?	Allotted?	Reservation:
Agreement in place? NO	Federal or Indian agreement:	
Agreement number:		
Agreement name:		
Keep application confidential? Y		
Permitting Agent? NO	APD Operator: MEWBOURNE OIL COMPANY	
Operator letter of designation:		

Operator Info

Operator Organization Name: MEWBOURNE OIL COMPANY

Operator Address: PO Box 5270 **Zip:** 88240

Operator PO Box:

Operator City: Hobbs **State:** NM

Operator Phone: (575)393-5905

Operator Internet Address:

Section 2 - Well Information

Well in Master Development Plan? NO	Master Development Plan name:	
Well in Master SUPO? NO	Master SUPO name:	
Well in Master Drilling Plan? NO	Master Drilling Plan name:	
Well Name: ZACH 17 W0MD FED	Well Number: 2H	Well API Number: 3002547530
Field/Pool or Exploratory? Field and Pool	Field Name: SANDERS TANK	Pool Name: WOLFCAMP
Is the proposed well in an area containing other mineral resources? USEABLE WATER,NATURAL GAS,OIL		

Is the proposed well in a Helium production area? N	Use Existing Well Pad? N	New surface disturbance?
Type of Well Pad: MULTIPLE WELL	Multiple Well Pad Name: Zach	Number: 4
Well Class: HORIZONTAL	17 MD & NC Fed wells	
	Number of Legs: 1	
Well Work Type: Drill		
Well Type: CONVENTIONAL GAS WELL		
Describe Well Type:		

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Is the proposed well in an area containing other mineral resources? USEABLE WATER,NATURAL GAS,OIL

Well sub-Type: APPRAISAL

Describe sub-type:

Distance to town: 30 Miles

Distance to nearest well: 50 FT

Distance to lease line: 320 FT

Reservoir well spacing assigned acres Measurement: 160 Acres

Well plat: Zach17W0MDFed2H_wellplat_20190809125039.pdf

Well work start Date: 10/09/2019

Duration: 60 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83

Vertical Datum: NAVD88

Survey number:

Reference Datum: GROUND LEVEL

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	270	FSL	1300	FWL	26S	33E	17	Aliquot SWSW	32.0370135	-103.5986299	LEA	NEW MEXICO	NEW MEXICO	F	NMNM0160973	3294	0	0	Y
KOP Leg #1	10	FSL	1650	FWL	26S	33E	17	Aliquot SESW	32.0362988	-103.5974997	LEA	NEW MEXICO	NEW MEXICO	F	NMNM0160973	-8679	11985	11973	Y
PPP Leg #1-1	100	FSL	1650	FWL	26S	33E	17	Aliquot SESW	32.0365404	-103.5974999	LEA	NEW MEXICO	NEW MEXICO	F	NMNM0160973	-8984	12307	12278	Y
EXIT Leg #1	100	FNL	1650	FWL	26S	33E	17	Aliquot NENW	32.0505128	-103.5975124	LEA	NEW MEXICO	NEW MEXICO	F	NMNM0160973	-9252	17483	12546	Y

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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?
BHL Leg #1	100	FNL	1650	FWL	26S	33E	17	Aliquot NENW 28	32.0505128	-103.5975124	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 0160973	-9252	17483	12546	Y

Drilling Plan

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
1377256	UNKNOWN	3296	27	27	OTHER : Top soil	NONE	N
1377267	RUSTLER	2556	740	740	ANHYDRITE, DOLOMITE	USEABLE WATER	N
1377268	TOP SALT	2198	1098	1098	SALT	NONE	N
1377257	BOTTOM SALT	-1308	4604	4604	SALT	NONE	N
1377264	LAMAR	-1540	4836	4836	LIMESTONE	NATURAL GAS, OIL	N
1377260	BELL CANYON	-1574	4870	4870	SANDSTONE	NATURAL GAS, OIL	N
1377261	CHERRY CANYON	-2584	5880	5880	SANDSTONE	NATURAL GAS, OIL	N
1377262	MANZANITA	-2824	6120	6120	LIMESTONE	NATURAL GAS, OIL	N
1377255	BONE SPRING	-5724	9020	9020	LIMESTONE, SHALE	NATURAL GAS, OIL	N
1377258	BONE SPRING 1ST	-6694	9990	9990	SANDSTONE	NATURAL GAS, OIL	N
1377259	BONE SPRING 2ND	-7254	10550	10550	SANDSTONE	NATURAL GAS, OIL	N
1377266	BONE SPRING 3RD	-8398	11694	11694	SANDSTONE	NATURAL GAS, OIL	N
1377263	WOLFCAMP	-8818	12114	12114	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

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Pressure Rating (PSI): 10M**Rating Depth:** 17438**Equipment:** Annular, Pipe Rams, Blind Rams**Requesting Variance?** YES

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

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

Choke Diagram Attachment:

Zach_17_W0MD_Fed_2H_10M_BOPE_Choke_Diagram_20200211142353.pdf

Zach_17_W0MD_Fed_2H_Flex_Line_Specs_API_16C_20200211142355.pdf

Zach_17_W0MD_Fed_2H_Flex_Line_Specs_20200211142554.pdf

BOP Diagram Attachment:

Zach_17_W0MD_Fed_2H_10M_Multi_Bowl_WH_20200211142610.pdf

Zach_17_W0MD_Fed_2H_10M_BOPE_Schematic_w_5M_Annular_20200211142633.pdf

Zach_17_W0MD_Fed_2H_10M_Annular_BOP_Variance_20200211142750.doc

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	N	0	1050	0	1050	3294	2244	1050	H-40	48	ST&C	1.6	3.6	DRY	6.39	DRY	10.3
2	INTERMEDIATE	12.25	9.625	NEW	API	Y	0	4760	0	4760	3326	-1466	4760	J-55	36	LT&C	1.13	1.96	DRY	2.57	DRY	3.1
3	PRODUCTION	8.75	7.0	NEW	API	N	0	12700	0	12516	3269	-9222	12700	HCP-110	26	LT&C	1.49	1.81	DRY	2.16	DRY	2.1
4	LINER	6.125	4.5	NEW	API	N	11985	17438	11985	12546	-8716	-9252	5453	P-110	13.5	LT&C	1.36	1.59	DRY	4.59	DRY	5.1

Casing Attachments

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Casing Attachments**Casing ID:** 1 **String Type:** SURFACE**Inspection Document:****Spec Document:****Tapered String Spec:****Casing Design Assumptions and Worksheet(s):**

Zach_17_W1NC_Fed_3H_CA_20190808093818.pdf

Casing ID: 2 **String Type:** INTERMEDIATE**Inspection Document:****Spec Document:****Tapered String Spec:**

Zach_17_W1NC_Fed_3H_2_Type_Inter_Tapered_String_Diagram_20190808094312.xlsx

Casing Design Assumptions and Worksheet(s):

Zach_17_W1NC_Fed_3H_CA_20190808094331.pdf

Casing ID: 3 **String Type:** PRODUCTION**Inspection Document:****Spec Document:****Tapered String Spec:****Casing Design Assumptions and Worksheet(s):**

Zach_17_W1NC_Fed_3H_CA_20190808094555.pdf

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Casing Attachments

Casing ID: 4 String Type: LINER

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Zach_17_W1NC_Fed_3H_CA_20190808094742.pdf

Section 4 - Cement

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	859	570	2.12	12.5	1208	100	Class C	Salt, Gel, Extender, LCM
SURFACE	Tail		859	1050	200	14.8	1.34	268	100	Class C	Retarder
INTERMEDIATE	Lead		0	4065	740	2.12	12.5	1569	25	Class C	Salt, Gel, Extender, LCM
INTERMEDIATE	Tail		4065	4760	200	14.8	1.34	268	25	Class C	Retarder
PRODUCTION	Lead	6120	4560	5431	80	2.12	12.5	170	25	Class C	Gel, Retarder, Defoamer, Extender
PRODUCTION	Tail		5431	6120	100	14.8	1.34	134	25	Class C	Retarder
PRODUCTION	Lead	6120	6120	10228	370	2.12	12.5	784	25	Class C	Gel, Retarder, Defoamer, Extender
PRODUCTION	Tail		10228	12700	400	15.6	1.18	472	25	Class H	Retarder, Fluid Loss, Defoamer
LINER	Lead		11985	17438	220	2.97	11.2	653	25	Class C	Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-Settling Agent

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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: Pason/PVT/Visual Monitoring

Circulating Medium Table

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	1050	SPUD MUD	8.6	8.8							
1050	4760	SALT SATURATED	10	10							
4760	1251 6	WATER-BASED MUD	8.6	9.5							
1251 6	1254 6	OIL-BASED MUD	10	13							

Section 6 - Test, Logging, Coring

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

Will run GR/CNL from KOP (12700') to surface.

Will run MWD GR from KOP (12700') to TD.

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

COMPENSATED NEUTRON LOG, DIRECTIONAL SURVEY, GAMMA RAY LOG, MEASUREMENT WHILE DRILLING, MUD LOG/GEOLOGIC LITHOLOGY LOG,

Coring operation description for the well:

None

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Section 7 - Pressure

Anticipated Bottom Hole Pressure: 8481

Anticipated Surface Pressure: 5720

Anticipated Bottom Hole Temperature(F): 165

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:

Zach_17_W0MD_Fed_2H_H2S_Plan_20200211142951.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Zach_17_W0MD_Fed_2H_Dir_plan_20200211143418.pdf

Zach_17_W0MD_Fed_2H_Dir_plot_20200211143419.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

Zach_17_W0MD_Fed_2H_Add_Info_20200211143435.pdf

Other Variance attachment:

SUPO

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

Zach17W0MDFed2H_existingroadmap_20190809125330.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:

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Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

New Road Map:

Zach17W0MDFed2H_newroadmap_20190809125346.pdf

New road type: RESOURCE

Length: 1463.47 Feet

Width (ft.): 30

Max slope (%): 3

Max grade (%): 3

Army Corp of Engineers (ACOE) permit required? N

ACOE Permit Number(s):

New road travel width: 14

New road access erosion control: None

New road access plan or profile prepared? N

New road access plan attachment:

Access road engineering design? N

Access road engineering design attachment:

Turnout? N

Access surfacing type: OTHER

Access topsoil source: OFFSITE

Access surfacing type description: Caliche

Access onsite topsoil source depth:

Offsite topsoil source description: Private pit

Onsite topsoil removal process:

Access other construction information:

Access miscellaneous information:

Number of access turnouts: 0

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

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Section 3 - Location of Existing Wells

Existing Wells Map? YES

Attach Well map:

Zach17W0MDFed2H_existingwellmap_20190809125405.pdf

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

Submit or defer a Proposed Production Facilities plan? SUBMIT

Production Facilities description: Battery area is located north - on site

Production Facilities map:

Zach17W0MDFed2H_productionfacilitymap_20190809130420.pdf

Section 5 - Location and Types of Water Supply

Water Source Table

Water source type: RECYCLED

Water source use type:

- SURFACE CASING
- STIMULATION
- DUST CONTROL
- CAMP USE
- INTERMEDIATE/PRODUCTION CASING

Source latitude: 32.33824

Source longitude: -103.332275

Source datum: NAD83

Water source permit type:

- WATER WELL
- OTHER

Water source transport method: PIPELINE

Source land ownership: STATE

Source transportation land ownership: FEDERAL

Water source volume (barrels): 1940

Source volume (acre-feet): 0.2500526

Source volume (gal): 81480

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Water source and transportation map:

Zach17W0MDFed2H_watersouceandtransmap_20190809125500.pdf

Water source comments:

New water well? N

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 source attached**Construction Materials source location attachment:**

Zach17W0MDFed2H_calichesouceandtransmap_20190809125525.pdf

Section 7 - Methods for Handling Waste**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

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Disposal type description:

Disposal location description: City of Carlsbad Water Treatment facility

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

Disposal type description:

Disposal location description: Waste Management facility in Carlsbad.

Waste type: DRILLING

Waste content description: Drill cuttings

Amount of waste: 940 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? N

Temporary disposal of produced water into reserve pit? NO

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

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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?: N

Ancillary Facilities attachment:

Comments:

Section 9 - Well Site Layout

Well Site Layout Diagram:

Zach17W0MDFed2H_wellsitelayout_20190809125550.pdf

Comments:

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: Zach 17 MD & NC Fed wells

Multiple Well Pad Number: 4

Recontouring attachment:

Drainage/Erosion control construction: None

Drainage/Erosion control reclamation: None

Well pad proposed disturbance (acres): 5.62	Well pad interim reclamation (acres): 1.28	Well pad long term disturbance (acres): 4.34
Road proposed disturbance (acres): 1	Road interim reclamation (acres): 0	Road long term disturbance (acres): 0
Powerline proposed disturbance (acres): 0	Powerline interim reclamation (acres): 0	Powerline long term disturbance (acres): 0
Pipeline proposed disturbance (acres): 0	Pipeline interim reclamation (acres): 0	Pipeline long term disturbance (acres): 0
Other proposed disturbance (acres): 0	Other interim reclamation (acres): 0	Other long term disturbance (acres): 0
Total proposed disturbance: 6.62	Total interim reclamation: 1.28	Total long term disturbance: 4.34

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.

Well Name: ZACH 17 W0MD FED	Well Location: T26S / R33E / SEC 17 / SWSW / 32.0370135 / -103.5986299	County or Parish/State: LEA / NM
Well Number: 2H	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMNM0160973	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002547530	Well Status: Approved Application for Permit to Drill	Operator: 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? N

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project? N

Seedling transplant description attachment:

Will seed be harvested for use in site reclamation? N

Seed harvest description:

Seed harvest description attachment:

Seed Management

Seed Table

Seed Summary	
Seed Type	Pounds/Acre

Total pounds/Acre:

Seed reclamation attachment:

Well Name: ZACH 17 W0MD FED	Well Location: T26S / R33E / SEC 17 / SWSW / 32.0370135 / -103.5986299	County or Parish/State: LEA / NM
Well Number: 2H	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMNM0160973	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002547530	Well Status: Approved Application for Permit to Drill	Operator: MEWBOURNE OIL COMPANY

Operator Contact/Responsible Official Contact Info

First Name:

Last Name:

Phone:

Email:

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? N

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: WELL PAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

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:

Well Name: ZACH 17 W0MD FED	Well Location: T26S / R33E / SEC 17 / SWSW / 32.0370135 / -103.5986299	County or Parish/State: LEA / NM
Well Number: 2H	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMNM0160973	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002547530	Well Status: Approved Application for Permit to Drill	Operator: MEWBOURNE OIL COMPANY

Disturbance type: NEW ACCESS ROAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

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: EXISTING ACCESS ROAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

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:

Well Name: ZACH 17 W0MD FED	Well Location: T26S / R33E / SEC 17 / SWSW / 32.0370135 / -103.5986299	County or Parish/State: LEA / NM
Well Number: 2H	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMNM0160973	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002547530	Well Status: Approved Application for Permit to Drill	Operator: MEWBOURNE OIL COMPANY

Section 12 - Other Information

Right of Way needed? N

Use APD as ROW?

ROW Type(s):

ROW Applications

SUPO Additional Information:

Use a previously conducted onsite? Y

Previous Onsite information: MAY 21 2019 Met w/RRC Surveying & staked location @ 205' FSL & 1300' FWL, Sec 17, T26S, R33E. This location was unacceptable due to buried gas line to the S. Re-staked location @ 270' FSL & 1300' FWL, Sec 17, T26S, R33E, Lea Co., NM. (Elevation @ 3267'). Pad is 490 x 500. Reclaim 60' S, E, & W. Top soil staked 30 wide W. Approx. 1400' of new road needed off NE corner, E to COG pad. Battery will be on the N side of the location. Location is in MOA. Will need a State ROW for road use. Will require BLM onsite. Lat: 32.03701357 N, Long: -103.59862986 W. (BPS) JUN 10 2019 Met w/Paul Murphy (BLM). Location approved @ 270' FSL & 1300' FWL, Sec 17, T26S, R33E, Lea Co., NM

Other SUPO Attachment

Zach17W0MDFed2H_gascaptureplan_20190809125644.pdf

Zach17W0MDFed2H_interimreclamationdiagram_20190809125652.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? N

Well Name: ZACH 17 W0MD FED	Well Location: T26S / R33E / SEC 17 / SWSW / 32.0370135 / -103.5986299	County or Parish/State: LEA / NM
Well Number: 2H	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMNM0160973	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002547530	Well Status: Approved Application for Permit to Drill	Operator: 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? N

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:

Well Name: ZACH 17 W0MD FED	Well Location: T26S / R33E / SEC 17 / SWSW / 32.0370135 / -103.5986299	County or Parish/State: LEA / NM
Well Number: 2H	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMNM0160973	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002547530	Well Status: Approved Application for Permit to Drill	Operator: 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? N

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? N

Well Name: ZACH 17 W0MD FED	Well Location: T26S / R33E / SEC 17 / SWSW / 32.0370135 / -103.5986299	County or Parish/State: LEA / NM
Well Number: 2H	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMNM0160973	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002547530	Well Status: Approved Application for Permit to Drill	Operator: 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? N

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: 01/13/2021

Title: Regulatory

Street Address: PO Box 5270

City: Hobbs

State: NM

Zip: 88260

Phone: (575)393-5905

Email address: bbishop@mewbourne.com

Field Representative

Well Name: ZACH 17 W0MD FED	Well Location: T26S / R33E / SEC 17 / SWSW / 32.0370135 / -103.5986299	County or Parish/State: LEA / NM
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US Well Number: 3002547530	Well Status: Approved Application for Permit to Drill	Operator: MEWBOURNE OIL COMPANY

Representative Name:

Street Address:

City:

State:

Zip:

Phone:

Email address:

Well Name: ZACH 17 W0MD FED	Well Location: T26S / R33E / SEC 17 / SWSW / 32.0370135 / -103.5986299	County or Parish/State: LEA / NM
Well Number: 2H	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMNM0160973	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002547530	Well Status: Approved Application for Permit to Drill	Operator: 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: BISHOP**Signed on:** JAN 13, 2021 10:08 AM**Name:** MEWBOURNE OIL COMPANY**Title:** Regulatory**Street Address:** P O BOX 5270**City:** HOBBS**State:** NM**Phone:** (575) 393-5905**Email address:** NOT ENTERED**Field Representative****Representative Name:****Street Address:****City:****State:****Zip:****Phone:****Email address:**

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

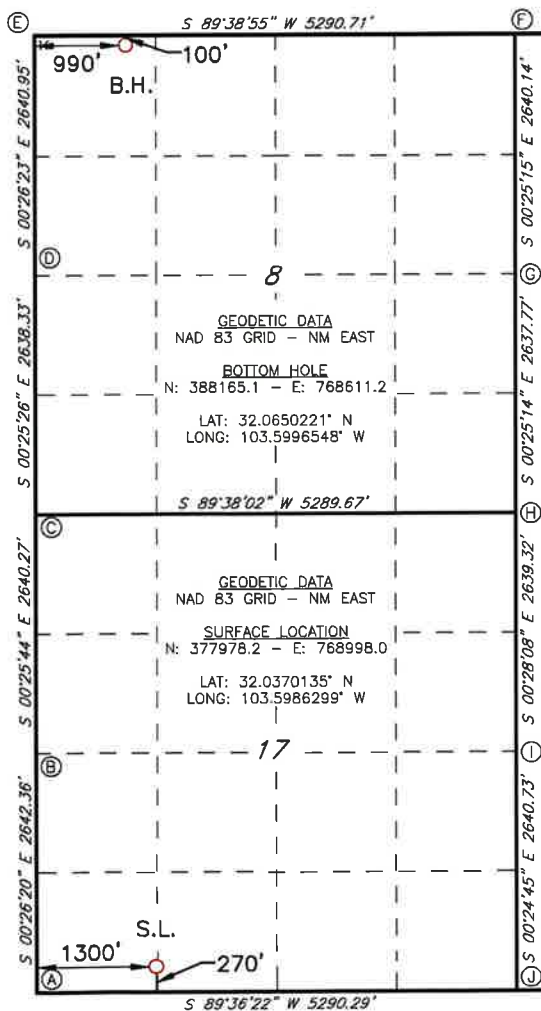
Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-47530		² Pool Code 98097		³ Pool Name Sanders Tank Upper Wolfcamp	
⁴ Property Code 328915		⁵ Property Name ZACH 17/8 WOMB FED COM			⁶ Well Number 2H
⁷ OGRID NO. 14744		⁸ Operator Name MEWBOURNE OIL COMPANY			⁹ Elevation 3267'
¹⁰ Surface Location					
UL or lot no. M	Section 17	Township 26S	Range 33E	Lot Idn	Feet from the 270
				North/South line SOUTH	Feet from the 1300
				East/West line WEST	County LEA
¹¹ Bottom Hole Location If Different From Surface					
UL or lot no. D	Section 8	Township 26S	Range 33E	Lot Idn	Feet from the 100
				North/South line NORTH	Feet from the 990
				East/West line WEST	County LEA
¹² Dedicated Acres 640		¹³ Joint or Infill		¹⁴ Consolidation Code	
				¹⁵ Order No.	

No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the division.



¹⁷ OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Bradley Bishop 1-13-21
Signature Date

Bradley Bishop
Printed Name

Bbishop@mewbourne.com
E-mail Address

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.

05/20/19

Date of Survey

Signature and Seal of Professional Surveyor

19680

Certificate Number

BH MOVE/NAME CHANGE - 12/22/20

Job No: LS19050608R1

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Mewbourne Oil Company
LEASE NO.:	NMNM0160973
WELL NAME & NO.:	ZACH 17-8 W0MD FED COM #2H
SURFACE HOLE FOOTAGE:	270'/S & 1330'/W
BOTTOM HOLE FOOTAGE:	100'/N & 990'/W
LOCATION:	Section 8, T.26 S., R.33 E., NMP
COUNTY:	Lea County, New Mexico

COA

H2S	<input type="radio"/> Yes	<input checked="" type="radio"/> No	
Potash	<input checked="" type="radio"/> None	<input type="radio"/> Secretary	<input type="radio"/> R-111-P
Cave/Karst Potential	<input type="radio"/> Low	<input checked="" type="radio"/> Medium	<input type="radio"/> High
Cave/Karst Potential	<input type="radio"/> Critical		
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 type="checkbox"/> Capitan Reef	<input type="checkbox"/> WIPP
Other	<input type="checkbox"/> Fluid Filled	<input type="checkbox"/> Cement Squeeze	<input type="checkbox"/> Pilot Hole
Special Requirements	<input type="checkbox"/> Water Disposal	<input type="checkbox"/> COM	<input type="checkbox"/> Unit

All Previous COAs Still Apply.

A. CASING

Casing Design:

1. The 13-3/8 inch surface casing shall be set at approximately **860 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 9-5/8 inch intermediate casing shall be set at approximately 4760 feet. The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:

- Cement to surface. If cement does not circulate see B.1.a, c-d above.
Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

- ❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

3. The minimum required fill of cement behind the 7-5/8 inch production casing is:

Option 1 (Single Stage):

- Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.
Excess cement calculates to -1%, additional cement might be required.

Option 2:

Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

- b. 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.
- c. Second stage above DV tool:
 - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

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.

Option 1:

- a. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.**
- b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the intermediate casing shoe shall be **10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.**

Option 2:

1. 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 **10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 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.

OTA01262021

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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 18151

CONDITIONS OF APPROVAL

Operator:	MEWBOURNE OIL CO	P.O. Box 5270	Hobbs, NM88241	OGRID:	14744	Action Number:	18151	Action Type:	C-103A
OCD Reviewer									Condition
pkautz									None