

U.S. Department of the Interior BUREAU OF LAND MANAGEMENT Operator Certification Data Report

Operator

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: MELISSA GUIDRY		Signed on: 02/12/2025
Title: Advisor Regulatory Sr.		
Street Address: 5 GREENWAY PL	AZA SUITE 110	
City: HOUSTON	State: TX	Zip: 77026
Phone: (713)497-2481		
Email address: MELISSA_GUIDR	Y@OXY.COM	
Field		
Representative Name:		
Street Address:		
City: S	tate:	Zip:
Phone:		
Email address:		

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

APD ID: 10400102655

Operator Name: OXY USA INCORPORATED Well Name: TOP SPOT 12_13 FED

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Well Type: OIL WELL

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Submission Date: 12/16/2024

Well Number: 42H Well Work Type: Drill Highlighted data reflects the most recent changes Show Final Text

Application Data

Section 1 - General		
APD ID: 10400102655	Tie to previous NOS? N	Submission Date: 12/16/2024
BLM Office: Carlsbad	User: MELISSA GUIDRY	Title: Advisor Regulatory Sr.
Federal/Indian APD: FED	Is the first lease penetrated for	production Federal or Indian? FED
Lease number: NMNM29233	Lease Acres:	
Surface access agreement in place?	Allotted? Rese	ervation:
Agreement in place? NO	Federal or Indian agreement:	
Agreement number:		
Agreement name:		
Keep application confidential? N		
Permitting Agent? NO	APD Operator: OXY USA INCOR	RPORATED
Operator letter of		

Operator Info

Operator Organization Name: OXY USA INCORPORATED Operator Address: P.O. BOX 1002 **Operator PO Box: Operator City: TUPMAN** State: CA Operator Phone: (661)763-6046 **Operator Internet Address:**

Section 2 - Well Information

Well in Master Development Plan? NO	Master Development Plan name	e:
Well in Master SUPO? NO	Master SUPO name:	
Well in Master Drilling Plan? NO	Master Drilling Plan name:	
Well Name: TOP SPOT 12_13 FED	Well Number: 42H	Well API Number:
Field/Pool or Exploratory? Field and Pool	Field Name: WC 22S31E13	Pool Name: WOLF CAMP

06/02/2025

1000

Zip: 93276-1002

Operator Name: OXY USA INCORPORATED **Well Name:** TOP SPOT 12_13 FED

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

Is the propos	sed well in a Helium produ	iction area? N	Use Existing Well Pad?	P N	New surface disturbance?		
Type of Well	Pad: MULTIPLE WELL		Multiple Well Pad Name LSTTNK 22S31E	e :	Number: 1303		
Well Class:	HORIZONTAL		Number of Legs: 1				
Well Work T	ype: Drill						
Well Type: C	DIL WELL						
Describe We	ell Type:						
Well sub-Ty	pe: INFILL						
Describe sul	b-type:						
Distance to t	town: 47 Miles	Distance to ne	arest well: 30 FT	Distanc	e to lease line: 305 FT		
Reservoir w	ell spacing assigned acres	Measurement:	640 Acres				
Well plat:	TOPSPOT12_13FED42H_	_C102_20241216	6105959.pdf				
	TOPSPOT12_13FED42H_	SITEPLAN_202	41216110007.pdf				
Well work st	art Date: 11/01/2025		Duration: 45 DAYS				

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83

Survey number:

Vertical Datum: NAVD88

Reference Datum: GROUND LEVEL

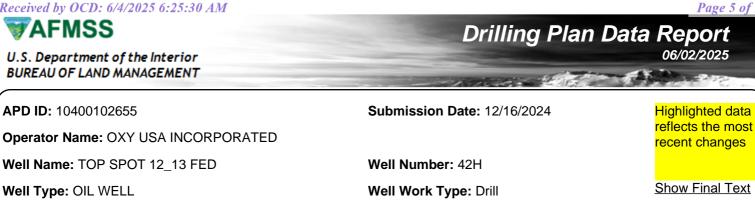
Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this
SHL Leg #1	305	FSL	158 0	FW L	22S	31E	13	Aliquot SESW	32.38508 7		EDD Y	NEW MEXI CO		1	NMNM 29233	355 8			N
KOP Leg #1	300	FNL	196 0	FW L	22S	31E	- ·	Aliquot NENW	32.38342 6	- 103.7337 23	EDD Y	NEW MEXI CO		1	NMNM 25876	- 844 6	121 05	120 04	N

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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
PPP	100	FSL	196	FW	22S	31E	13	Aliquot	32.38452	-	EDD	1		F	NMNM	-	125	122	Y
Leg			0	L				SESW	5	103.7337	Y	1	MEXI		29233	868	69	40	
#1-1										23		со	со			2			
EXIT	100	FNL	196	FW	22S	31E	12	Aliquot	32.41301		EDD	1		F	NMNM	-	227	122	Y
Leg			0	L				NENW	8	103.7337	Y	1	MEXI		29233	868	30	40	
#1										07		со	со			2			
BHL	20	FNL	196	FW	22S	31E	12	Aliquot	32.41323	-	EDD	1		F	NMNM	-	228	122	N
Leg			0	L				NENW	8	103.7337	Y	1	MEXI		29233	868	10	40	
#1										07		со	со			2			





Section 1 - Geologic Formations

Formation	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
15735692	RUSTLER	3558	820	820	ANHYDRITE, DOLOMITE, SHALE	USEABLE WATER	N
15735693	SALADO	2435	1123	1123	ANHYDRITE, DOLOMITE, HALITE, SHALE	OTHER : SALT	N
15735694	CASTILE	682	2876	2876	ANHYDRITE	OTHER : SALT	N
15735695	DELAWARE	-897	4455	4455	LIMESTONE, SANDSTONE, SILTSTONE	NATURAL GAS, OIL, OTHER : BRINE	Y
15735696	BELL CANYON	-945	4503	4503	SANDSTONE, SILTSTONE	NATURAL GAS, OIL, OTHER : BRINE	Y
15735697	CHERRY CANYON	-1855	5413	5417	SANDSTONE, SILTSTONE	NATURAL GAS, OIL, OTHER : BRINE	Y
15735698	BRUSHY CANYON	-3022	6580	6602	SANDSTONE, SILTSTONE	OTHER : LOSSES	N
15735699	BONE SPRING	-4782	8340	8389	LIMESTONE, SANDSTONE, SILTSTONE	NATURAL GAS, OIL	Y
15735700	BONE SPRING 1ST	-5913	9471	9528	LIMESTONE, SANDSTONE, SILTSTONE	NATURAL GAS, OIL	Y
15735701	BONE SPRING 2ND	-6513	10071	10128	LIMESTONE, SANDSTONE, SILTSTONE	NATURAL GAS, OIL	Y
15735702	BONE SPRING 3RD	-7539	11097	11154	LIMESTONE, SANDSTONE, SILTSTONE	NATURAL GAS, OIL	Y
15735703	WOLFCAMP	-8063	11621	11683	SANDSTONE, SILTSTONE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 10M

Rating Depth: 12240

Equipment: 13-5/8" 5M Annular, 10M Blind Ram, 10M Double Ram

Requesting Variance? YES

Variance request: Request for the use of a flexible choke line from the BOP to Choke Manifold.

Testing Procedure: BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per 43 CFR part 3170 Subpart 3172 requirements. The System may be

Well Name: TOP SPOT 12_13 FED

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. OXY requests permission to adjust the BOP break testing requirements as per the agreement reached in the OXY/BLM meeting on September 5, 2019. See the attached BOP Break Testing variance.

Choke Diagram Attachment:

TOPSPOT12_13FED42H_ChkManifolds_20241216111304.pdf

BOP Diagram Attachment:

TOPSPOT12_13FED42H_BOP_20241216111312.pdf

TOPSPOT12_13FED42H_13inADAPT_4S_10x15_20241216111322.pdf

TOPSPOT12_13FED42H_FlexHoseCert_20241216111337.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	N	0	880	0	880	3558	2678	880	J-55	54.5	BUTT	1	1.1	BUOY	1.4	BUOY	1.4
2	OTHER - SALT	12.2 5	10.75	NEW	API	N	0	4455	0	4455	3698	-897	4455	HCL -80		OTHER - BTC-SC	1	1.1	BUOY	1.4	BUOY	1.4
3	INTERMED IATE	9.87 5	7.625	NEW	API	N	0	12074	0	11975	3698	-8417	12074	HCL -80	29.7	BUTT	1	1.1	BUOY	1.4	BUOY	1.4
4	PRODUCTI ON	6.75	5.5	NEW	API	N	0	22810	0	12240	3558	-8682	22810	P- 110		OTHER - Sprint-SF	1	1.1	BUOY	1.4	BUOY	1.4

Casing Attachments

Operator Name: OXY USA INCORPORATED

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Casing Attachments

Casing ID: 1 String SURFACE	
Inspection Document:	
Spec Document:	
Tapered String Spec:	
Casing Design Assumptions and Worksheet(s):	
TOPSPOT12_13FED42H_CsgCriteria_20241216111420.pdf	
Casing ID:2StringOTHER- SALT	
Inspection Document:	
Spec Document:	
Tapered String Spec:	
Casing Design Assumptions and Worksheet(s):	
TOPSPOT12_13FED42H_CsgCriteria_20241216111505.pdf	
Casing ID: 3 String INTERMEDIATE	
Inspection Document:	
Spec Document:	
•	
Tapered String Spec:	
Casing Design Assumptions and Worksheet(s):	

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Casing Attachments

Casing ID: 4 String PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

TOPSPOT12_13FED42H_CsgCriteria_20241216111649.pdf

TOPSPOT12_13FED42H_API_BTC_SC_10.750in_45.50ppf_L80IC_20241216111654.pdf

TOPSPOT12_13FED42H_VAM_SPRINT_SF_5.5in_23ppf_P110RY_20241216111701.pdf

Section	4 - Ce	emen	t								
String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	880	919	1.33	14.8	1222	100	Class C	Accelerator

OTHER	Lead	2	0	3955	623	1.73	12.9	1078	50	Class C	Accelerator
OTHER	Tail		3955	4455	85	1.33	14.8	113	20	Class C	Accelerator
OTHER	Lead	2	3955	6852	441	1.71	13.3	754	25	Class C	Accelerator

INTERMEDIATE	Lead	1	6852	1207 4	701	1.68	13.2	1178	5	Class C	Retarder, Dispersant

PRODUCTION L	_ead	1157 4	2281 0	634	1.84	13.3	1167	25	Class C	Retarder
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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 43 CFR 3172:

Diagram of the equipment for the circulating system in accordance with 43 CFR 3172:

Describe what will be on location to control well or mitigate other conditions: Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times. The following is a general list of products: Barite, Bentonite, Gypsum, Lime, Soda Ash, Caustic Soda, Nut Plug, Cedar Fiber, Cotton Seed Hulls, Drilling Paper, Salt Water Clay, CACL2. Oxy will use a closed mud system.

Describe the mud monitoring system utilized: PVT/MD Totco/Visual Monitoring

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (Ibs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	I Strength (lbs/100 sqft)	Ŧ	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
L D	В	ž	Mir	Ma	ă	Gel	НЧ	<i;< td=""><td>S</td><td>ΪΞ</td><td>Ad</td></i;<>	S	ΪΞ	Ad
1207 4	2281 0	OTHER : WATER-BASED MUD OR OIL- BASED MUD	9.5	13.5							
0	880	WATER-BASED MUD	8.6	8.8							
880	4455	OTHER : SATURATED BRINE-BASED OR OIL-BASED MUD	8	10							
4455	1207 4	OTHER : WATER-BASED MUD OR OIL- BASED MUD	8	10							

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Section 6 - Test, Logging, Coring

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

GR from TD to surface (horizontal well vertical portion of hole) Mud Log from Bone Spring - TD CBL (production string) - to be ran by completions. List of open and cased hole logs run in the well:

GAMMA RAY LOG, CEMENT BOND LOG, DIRECTIONAL SURVEY, MUD LOG/GEOLOGICAL LITHOLOGY LOG,

Coring operation description for the well:

No coring is planned at this time.

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 8593

Anticipated Surface Pressure: 5900

Anticipated Bottom Hole Temperature(F): 178

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

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations

TOPSPOT12_13FED42H_H2S1_20241216112837.pdf TOPSPOT12_13FED42H_H2S2_20241216112841.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

TOPSPOT12_13FED42H_DirectPlan_20241216112859.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

TOPSPOT12_13FED42H_DrillPlan_20241216112905.pdf TOPSPOT12_13FED42H_SpudRigData_20241216112911.pdf TOPSPOT12_13FED42H_2024_KPLA_Addendum_WellboreSchematics_20241216112925.pdf TOPSPOT12_13FED42H_NGMP___WMP_20241216112933.pdf

Other Variance request(s)?: Y

Other Variance attachment:

TOPSPOT12_13FED42H_5MAnnBOPVariance_20241216112940.pdf

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TOPSPOT12_13FED42H_BOPBreakTestingVariance_20241216112953.pdf TOPSPOT12_13FED42H_BradenheadCBLVariance_20241216113000.pdf TOPSPOT12_13FED42H_OfflineCementVariance_20241216113007.pdf

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Well Type: OIL WELL

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

TOPSPOT12_13FED42H_ExistingRoads_20241216113042.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 nee	ded? YES					
New Road Map:						
TOPSPOT12_13FED42	H_NewRoads_20241	216113116.pdf				
New road type: LOCAL	-					
Length: 859	Feet	Width (ft.): 30				
Max slope (%): 0		Max grade (%): 0				
Army Corp of Enginee	rs (ACOE) permit rec	juired? N				
ACOE Permit Number	(s):					
New road travel width:	: 20					
New road access eros	New road access erosion control: Watershed diversion every 200', if needed.					
New road access plan	or profile prepared?	Ν				
New road access plan						



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Access road engineering design? N

Access road engineering design

Turnout? N

Access surfacing type: OTHER

Access topsoil source: ONSITE

Access surfacing type description: CALICHE

Access onsite topsoil source depth: 0

Offsite topsoil source description:

Onsite topsoil removal process: If available

Access other construction information:

Access miscellaneous information:

Number of access turnouts:

Access turnout map:

Drainage Control

New road drainage crossing: CULVERT

Drainage Control comments: Watershed diversion every 200', if needed.

Road Drainage Control Structures (DCS) description: Watershed diversion every 200', if needed.

Road Drainage Control Structures (DCS) attachment:

Access Additional Attachments

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Existing Well map Attachment:

TOPSPOT12_13FED42H_ExistingWells_20241216113148.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:

TOPSPOT12_13FED42H_LeaseFacility_20241216113259.pdf

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Section 5 - Location a	nd Types of	Water Supply	v
Water Source Tab			
Water source type: GW WELL			
Water source use type:	SURFACE CA	SING	
	OTHER		Describe use type: DRILLING
	INTERMEDIAT CASING	E/PRODUCTION	I
Source latitude:			Source longitude:
Source datum:			
City:			
Water source permit type:	WATER WELL		
Water source transport method:	TRUCK	ING	
	PIPELIN	1E	
Source land ownership: COMMER			
Source transportation land owner	-	CIAL	
Water source volume (barrels): 20)00		Source volume (acre-feet): 0.25778619
Source volume (gal): 84000			
Water source and transportation			
TOPSPOT12_13FED42H_WtrSrcGRR	_202412161133	27.pdf	
TOPSPOT12_13FED42H_WtrSrcMeso	•	•	
TOPSPOT12_13FED42H_Water_Calid		—	•
			f water mud systems. It will be obtained from nd will be hauled to location by transport truck using
New Water Well	nfo		
Well latitude:	Well Longit	ude:	Well datum:
Well target aquifer:			

Est. o	depth	to to	op of	aquifer(ft):	

Aquifer comments:

Aquifer documentation:

Well depth (ft):

Well casing type:

Est thickness of aquifer:

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 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:
 Additional information:

Section 6 - Construction Materials

Using any construction materials: YES

Construction Materials description: Primary All caliche utilized for the drilling pad and proposed access road will be obtained from an existing BLM/State/Fee approved pit or from prevailing deposits found on the location. Will use BLM recommended extra caliche from other locations close by for roads, if available. Secondary The secondary way of obtaining caliche to build locations and roads will be by turning over the location. This means, caliche will be obtained from the actual well site. A caliche permit will be obtained from BLM prior to pushing up any caliche. 2400 cubic yards is max amount of caliche needed for pad and roads. Amount will vary for each pad. The procedure below has been approved by BLM personnel: a. The top 6 of topsoil is pushed off and stockpiled along the side of the location. b. An approximate 120 X 120 area is used within the proposed well site to remove caliche. c. Subsoil is removed and piled alongside the 120 X 120 within the pad site. d. When caliche is found, material will be stockpiled within the pad site to build the location and road. e. Then subsoil is pushed back in the hole and caliche is spread accordingly across entire location and road. f. Once the well is drilled the stockpiled top soil will be used for interim reclamation and spread along areas where caliche is picked up and the location size is reduced. Neither caliche nor subsoil will be stockpiled outside of the well pad. Topsoil will be stockpiled along the edge of the pad as depicted in the site plan included with this APD.

Construction Materials source location

TOPSPOT12_13FED42H_Water_Caliche_Source_Map_20241216113459.pdf

Section 7 - Methods for Handling

Waste type: DRILLING

Waste content description: Water-Based Cuttings, Water-Based Mud, Oil-Based Cuttings, Oil-Based Mud, Produced Water

Amount of waste: 1980 barrels

Waste disposal frequency : Daily

Safe containment description: Haul-Off Bins

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL Disposal location ownership: COMMERCIAL FACILITY Disposal type description:

Disposal location description: An approved facility that can process drill cuttings, drill fluids, flowback water, produced water, contaminated soils, and other non-hazardous wastes. Methods of Handling Waste Material: a. A closed loop system will be utilized consisting of above ground steel tanks and haul-off bins.

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Disposal of liquids, drilling fluids and cuttings will be disposed of at an approved facility. Solids-CRI, Liquids-Laguna b. All trash, junk and other waste material will be contained in trash cages or bins to prevent scattering. When the job is completed, all contents will be removed and disposed of in an approved sanitary landfill. c. The supplier, including broken sacks, will pickup slats remaining after completion of well. d. A Porto-john will be provided for the rig crews. This equipment will be properly maintained during the drilling and completion operations and will be removed when all operations are complete. e. Disposal of fluids to be transported will be by the following companies. TFH Ltd, Laguna SWD Facility

Reserve Pit

Reserve Pit being used? NO

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? Y

Description of cuttings location A closed loop system will be utilized consisting of above ground steel tanks and haul-off bins. Disposal of liquids, drilling fluids and cuttings will be disposed of at an approved facility.

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?

Cuttings area liner

Cuttings area liner specifications and installation description

Section 8 - Ancillary

Are you requesting any Ancillary Facilities?: N

Ancillary Facilities

Comments:

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Section 9 - Well Site

Well Site Layout Diagram:

TOPSPOT12_13FED42H_ClosedLoop_20241216113601.pdf

Comments:

Section 10 - Plans for Surface

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: LSTTNK_22S31E

Multiple Well Pad Number: 1303

Recontouring

TOPSPOT12_13FED42H_SITEPLAN_20241216113618.pdf

Drainage/Erosion control construction: Reclamation to be wind rowed as needed to control erosion.

Drainage/Erosion control reclamation: Reclamation to be wind rowed as needed to control erosion.

Well pad proposed disturbance (acres): 6.31	Well pad interim reclamation (acres): 2.51	Well pad long term disturbance (acres): 3.81
Road proposed disturbance (acres): 0.59	Road interim reclamation (acres): 0.2	Road long term disturbance (acres): 0.39
Powerline proposed disturbance (acres): 18.08 Pipeline proposed disturbance (acres): 97.65 Other proposed disturbance (acres):	Powerline interim reclamation (acres): 18.08 Pipeline interim reclamation (acres): 65.1 Other interim reclamation (acres): 0	Powerline long term disturbance (acres): 0 Pipeline long term disturbance (acres): 32.55 Other long term disturbance (acres):
0.18		0.18
Total proposed disturbance: 122.81	Total interim reclamation: 85.88999999999999	Total long term disturbance: 36.93

Disturbance Comments:

Reconstruction method: If the well is deemed commercially productive, caliche from the areas of the pad site not required for operations will be reclaimed. The original topsoil will be returned to the area of the drill pad not necessary to operate the well. These unused areas of the drill pad will be contoured, as close as possible, to match the original topography, and the area will be seeded with an approved BLM mixture to re-establish vegetation. After concluding the drilling and/or completion operations, if the well is found non-commercial, the caliche will be removed from the pad and transported to the original caliche pit or used for other drilling locations. The road will be reclaimed as directed by the BLM. the original topsoil will again be returned to the pad and contoured, as close as possible, to the original topography and the area will be seeded with an approved BLM mixture to re-estables, to the original topography and the area will be seeded with an approved BLM mixture to re-estable to the original topography and the area will be seeded with an approved BLM mixture to re-estable, to the original topography and the area will be seeded with an approved BLM mixture to re-establish vegetation.

Topsoil redistribution: The original topsoil will be returned to the area of the drill pad not necessary to operate the well.

Soil treatment: To be determined by BLM.

Existing Vegetation at the well pad: To be determined by BLM at onsite.

Existing Vegetation at the well pad

Operator Name: OXY USA INCORPORATED

Well Name: TOP SPOT 12_13 FED

Existing Vegetation Community at the road: To be determined by BLM at onsite.

Existing Vegetation Community at the road

Existing Vegetation Community at the pipeline: To be determined by BLM at onsite.

Existing Vegetation Community at the pipeline

Existing Vegetation Community at other disturbances: To be determined by BLM at onsite. Existing Vegetation Community at other disturbances

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

Seed Table

	Seed Summary		Total pounds/Acre:				
S	eed Type	Pounds/Acre					
Seed reclamation							
	Operator Co	ontact/Responsible	e Official				
First Nam	e: Mike		Last Name: Wilson				
Phone:			Email: michael_wilson				
Seedbed pr	ep:						
Seed BMP:							
Seed metho	od:						
Existing inv	asive species?	N					
Existing inv	asive species tr	eatment description:					

Operator Name: OXY USA INCORPORATED

Well Name: TOP SPOT 12_13 FED

Well Number: 42H

Existing invasive species treatment Weed treatment plan description: To be determined by BLM. Weed treatment plan Monitoring plan description: To be determined by BLM. Monitoring plan Success standards: To be determined by BLM. Pit closure description: NA Pit closure attachment:

Section 11 - Surface

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:

Disturbance type: NEW ACCESS ROAD Describe: Surface Owner: BUREAU OF LAND MANAGEMENT Other surface owner description: BIA Local Office:

Well Name: TOP SPOT 12_13 FED

Well Number: 42H

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: PIPELINE 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: USFWS Local Office: USFS Region: USFS Forest/Grassland:

USFS Ranger District:

Well Name: TOP SPOT 12_13 FED

Well Number: 42H

Disturbance type: OTHER
Describe: ELECTRIC LINES
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:

Section 12 - Other

Right of Way needed? Y

Use APD as ROW? Y

ROW Type(s): 281001 ROW - ROADS, 285003 ROW - POWER TRANS, 288100 ROW - O&G Pipeline, 288101 ROW - O&G Facility Sites, 289001 ROW- O&G Well Pad



SUPO Additional Information: Permian Basin MOA : To be submitted after APD acceptance. GIS shapefiles available for BLM. Use a previously conducted onsite? N

Previous Onsite information:

Other SUPO

TOPSPOT12_13FED42H_StakingSheet_20241216113800.pdf TOPSPOT12_13FED42H_NGMP___WMP_20241216113811.pdf

WAFMSS

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

APD ID: 10400102655

Operator Name: OXY USA INCORPORATED

Well Name: TOP SPOT 12_13 FED

Well Type: OIL WELL

Submission Date: 12/16/2024

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06/02/2025

PWD Data Report

Well Number: 42H Well Work Type: Drill

Section 1 - General

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

Section 2 - Lined

Would you like to utilize Lined Pit PWD options? N Produced Water Disposal (PWD) Location: **PWD surface owner: Other PWD Surface Owner Description:** Lined pit PWD on or off channel: Lined pit PWD discharge volume (bbl/day): Lined pit Pit liner description: **Pit liner manufacturers** Precipitated solids disposal: Decribe precipitated solids disposal: Precipitated solids disposal Lined pit precipitated solids disposal schedule: Lined pit precipitated solids disposal schedule Lined pit reclamation description: Lined pit reclamation Leak detection system description: Leak detection system

PWD disturbance (acres):

Well Name: TOP SPOT 12_13 FED

Well Number: 42H

Lined pit Monitor description: Lined pit Monitor 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

Section 3 - Unlined

Would you like to utilize Unlined Pit PWD options? N

Produced Water Disposal (PWD) Location:

PWD disturbance (acres): PWD surface owner:

Other PWD Surface Owner Description:

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule

Unlined pit reclamation description:

Unlined pit reclamation

Unlined pit Monitor description:

Unlined pit Monitor

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

Beneficial use user

Estimated depth of the shallowest aquifer (feet):

Precipitated Solids Permit

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

Operator Name: OXY USA INCORPORATED

Well Name: TOP SPOT 12_13 FED

Well Number: 42H

State

Unlined Produced Water Pit Estimated 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

Section 4 -

Would you like to utilize Injection PWD options? $\ensuremath{\mathbb{N}}$

Produced Water Disposal (PWD) Location: **PWD surface owner: PWD disturbance (acres): Other PWD Surface Owner Description:** Injection PWD discharge volume (bbl/day): Injection well mineral owner: Injection well type: Injection well name: Injection well number: Assigned injection well API number? Injection well API number: Injection well new surface disturbance (acres): Minerals protection information: **Mineral protection Underground Injection Control (UIC) Permit? UIC Permit Section 5 - Surface** Would you like to utilize Surface Discharge PWD options? N Produced Water Disposal (PWD) Location: **PWD surface owner: PWD disturbance (acres): Other PWD Surface Owner Description :** 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:

Operator Name: OXY USA INCORPORATED **Well Name:** TOP SPOT 12_13 FED

Well Number: 42H

Page 25 of 100

Section 6 -

Would you like to utilize Other PWD options? $\ensuremath{\mathbb{N}}$

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD Surface Owner Description:

Other PWD discharge volume (bbl/day):

Other PWD type description:

Other PWD type

Have other regulatory requirements been met?

Other regulatory requirements

PWD disturbance (acres):

WAFMSS

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

APD ID: 10400102655 Operator Name: OXY USA INCORPORATED Well Name: TOP SPOT 12_13 FED Well Type: OIL WELL

Submission Date: 12/16/2024

ALL STREET, ST

Well Number: 42H Well Work Type: Drill Highlighted data reflects the most recent changes <u>Show Final Text</u>

Bond Info Data

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06/02/2025

Bond

Federal/Indian APD: FED

BLM Bond number: ESB000226

BIA Bond number:

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Is the reclamation bond BLM or Forest Service?

BLM reclamation bond number:

Forest Service reclamation bond number:

Forest Service reclamation bond attachment:

Reclamation bond amount:

Reclamation bond rider amount:

Additional reclamation bond information attachment:

Form 3160-3 (June 2015) UNITED STATES		FORM APPROVED OMB No. 1004-0137 Expires: January 31, 2018				
DEPARTMENT OF THE I	NTERIOR	_		5. Lease Serial No. NMNM29233		
BUREAU OF LAND MANA APPLICATION FOR PERMIT TO D	_			6. If Indian, Allotee or Tr	ihe Name	
APPLICATION FOR PERMIT TO D		NEENIEN			ibe Maine	
1a. Type of work:	EENTER			7. If Unit or CA Agreeme	ent, Name and No.	
1b. Type of Well: ✓ Oil Well Gas Well Oil	ther			8. Lease Name and Well	N1-	
1c. Type of Completion: Hydraulic Fracturing	ngle Zone	✔ Multiple Zone		8. Lease Name and well	INO.	
	C L			TOP SPOT 12 13 FEI)	
				42H		
2. Name of Operator OXY USA INCORPORATED				9. API Well No. 30-01	5-56984	
3a. Address P.O. BOX 1002, TUPMAN, CA 93276-1002	o. <i>(include area cod</i> 046	le)	10. Field and Pool, or Ex WC 22S31E13/WOLF			
4. Location of Well (Report location clearly and in accordance v	with any State	requirements.*)		11. Sec., T. R. M. or Blk.	•	
At surface SESW / 305 FSL / 1580 FWL / LAT 32.3850	087 / LONG ·	103.734953		SEC 13/T22S/R31E/NM	МР	
At proposed prod. zone NENW / 20 FNL / 1960 FWL / LA	AT 32.41323	8 / LONG -103.73	3707			
14. Distance in miles and direction from nearest town or post office 47 miles	ice*			12. County or Parish EDDY	13. State NM	
5. Distance from proposed* location to nearest property or lease line, ft.		16. No of acres in lease 17. S 640.1		acing Unit dedicated to this well		
(Also to nearest drig. unit line, if any) 18. Distance from proposed location*	10 Proposo	9. Proposed Depth 20. BLM/		BIA Bond No. in file		
to nearest well, drilling, completed, applied for, on this lease, ft. 30 feet				BIA Bolid No. III Ille B000226		
21. Elevations (Show whether DF, KDB, RT, GL, etc.)3558 feet	22. Approxi 11/01/2025	mate date work will	start*	23. Estimated duration45 days		
	24. Attac	hments		I		
The following, completed in accordance with the requirements of (as applicable)	f Onshore Oil	and Gas Order No.	I, and the H	Iydraulic Fracturing rule p	er 43 CFR 3162.3-3	
 Well plat certified by a registered surveyor. A Drilling Plan. 		4. Bond to cover the Item 20 above).	e operation	s unless covered by an exis	sting bond on file (see	
3. A Surface Use Plan (if the location is on National Forest Syster SUPO must be filed with the appropriate Forest Service Office		5. Operator certific		mation and/or plans as may	be requested by the	
25. Signature (Electronic Submission)		/ <i>(Printed/Typed)</i> SSA GUIDRY / Ph	: (713) 36	6-5716 Date	e 16/2024	
Title Advisor Regulatory Sr.						
Approved by (Signature) (Electronic Submission)		(Printed/Typed) ' LAYTON / Ph: (5	75) 234-59	Date 959 05/30/2025		
Title	Office			L		
Assistant Field Manager Lands & Minerals Application approval does not warrant or certify that the applicant applicant to conduct operations thereon. Conditions of approval, if any, are attached.		oad Field Office or equitable title to the	nose rights	in the subject lease which	would entitle the	
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, m of the United States any false, fictitious or fraudulent statements of					epartment or agency	



(Continued on page 2)

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INSTRUCTIONS

GENERAL: This form is designed for submitting proposals to perform certain well operations, as indicated on Federal and Indian lands and leases for action by appropriate Federal agencies, pursuant to applicable Federal laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from local Federal offices.

ITEM I: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable Federal regulations concerning subsequent work proposals or reports on the well.

ITEM 4: Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal offices for specific instructions.

ITEM 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on the reverse side, showing the roads to, and the surveyed location of, the wen, and any other required information, should be furnished when required by Federal agency offices.

ITEMS 15 AND 18: If well is to be, or has been directionany drilled, give distances for subsurface location of hole in any present or objective productive zone.

ITEM 22: Consult applicable Federal regulations, or appropriate officials, concerning approval of the proposal before operations are started.

ITEM 24: If the proposal will involve hydraulic fracturing operations, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The Privacy Act of 1974 and regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 25 U.S.C. 396; 43 CFR 3160

PRINCIPAL PURPOSES: The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service wen or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts.

ROUTINE USE: Information from the record and/or the record win be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if you elect to initiate a drilling or reentry operation on an oil and gas lease.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM conects this information to anow evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications. Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease. The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Conection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

Additional Operator Remarks

Location of Well

0. SHL: SESW / 305 FSL / 1580 FWL / TWSP: 22S / RANGE: 31E / SECTION: 13 / LAT: 32.385087 / LONG: -103.734953 (TVD: 0 feet, MD: 0 feet) PPP: SESW / 100 FSL / 1960 FWL / TWSP: 22S / RANGE: 31E / SECTION: 13 / LAT: 32.384525 / LONG: -103.733723 (TVD: 12240 feet, MD: 12569 feet) BHL: NENW / 20 FNL / 1960 FWL / TWSP: 22S / RANGE: 31E / SECTION: 12 / LAT: 32.413238 / LONG: -103.733707 (TVD: 12240 feet, MD: 22810 feet)

BLM Point of Contact

Name: TENILLE C MOLINA Title: Land Law Examiner Phone: (575) 234-2224 Email: TCMOLINA@BLM.GOV

Review and Appeal Rights

A person contesting a decision shall request a State Director review. This request must be filed within 20 working days of receipt of the Notice with the appropriate State Director (see 43 CFR 3165.3). The State Director review decision may be appealed to the Interior Board of Land Appeals, 801 North Quincy Street, Suite 300, Arlington, VA 22203 (see 43 CFR 3165.4). Contact the above listed Bureau of Land Management office for further information.

Received b	v OCD:	6/4/2025	6:25:30 AM	r
11000000000	,			

C-102

Submit Electronically Via OCD Permitting

State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION

☑ Initial Submittal Submittal

Type:

Amended Report

□ As Drilled

WELL LOCATION INFORMATION							
API Number 30-015 -56984	Pool Code 98351		Pool Name WC 22S31E13; W	/OLFCAMP			
Property Code 335970	Property Name	TOP	SPOT 12_13 FED	Well Number 42H			
OGRID No. 16696	Operator Name	0	XY USA INC.	Ground Level Elevation 3558.8'			
Surface Owner: 🗆 State 🗆 Fee 🗖 Tribal 🗹 Federal			Mineral Owner: 🗆 State 🗖 Fee 🗖 Tribal 🖬 F	Federal			

	Surface Location								
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD 83)	Longitude (NAD 83)	County
Ν	13	228	31E		305 SOUTH	1580 WEST	32.385087°	-103.734953°	EDDY
-	Bottom Hole Location								
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD 83)	Longitude (NAD 83)	County
С	12	22S	31E		20 NORTH	1960 WEST	32.413238°	-103.733707°	EDDY

Dedicated Acres 640	Infill or Defining Well	Defining Well API 311H - 30-015-47627		Consolidation Code N/A
Order Numbers. N	/A		Well setbacks are under Common	Ownership: □Yes ⊠No

_	Kick Off Point (KOP)								
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD 83)	Longitude (NAD 83)	County
C	24	22S	31E		300 NORTH	1960 WEST	32.383426°	-103.733723°	EDDY
	First Take Point (FTP)								
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD 83)	Longitude (NAD 83)	County
N	13	22S	31E		100 SOUTH	1960 WEST	32.384525°	-103.733723°	EDDY
	Last Take Point (LTP)								
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD 83)	Longitude (NAD 83)	County
C	12	22S	31E		100 NORTH	1960 WEST	32.413018°	-103.733707°	EDDY

- Unitized Area or Area of Uniform Interest N
- Spacing Unit Type \blacksquare Horizontal \square Vertical

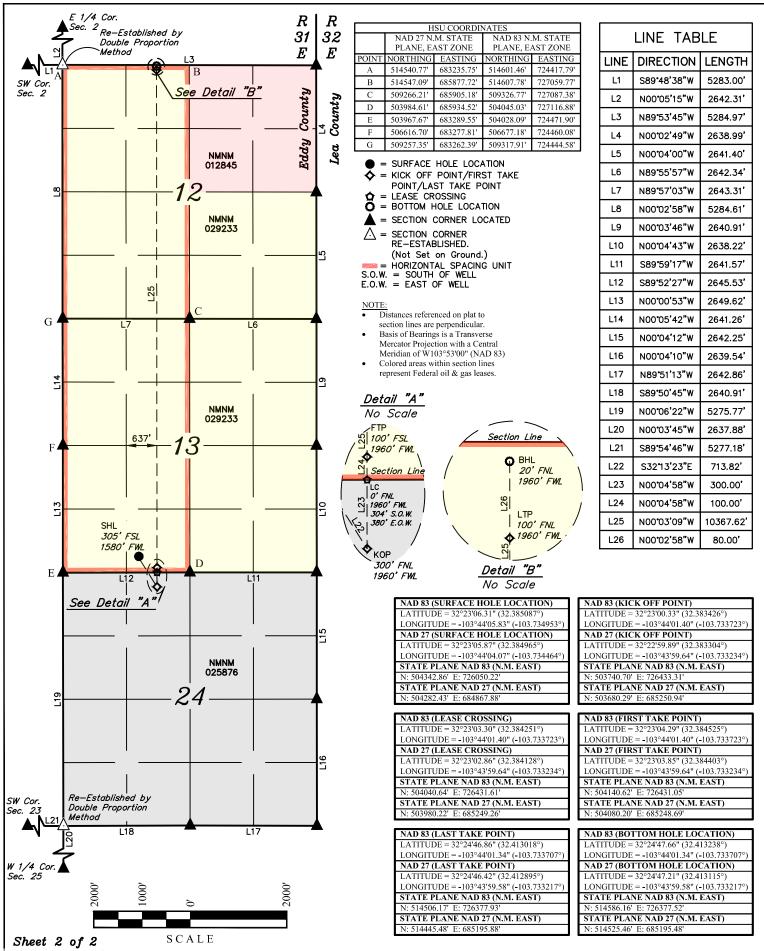
Ground Floor Elevation: 3558.8'

OPERATOR CERTIFICATIONS	SURVEYOR CERTI	SURVEYOR CERTIFICATIONS		
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, 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 a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral intere interval will be located or obtained a compulsory pooling order from the division. Melissoc Guidly 12/16/24	surveys made by me or u my belief. e	I hereby certify that the well location shown on this plat was plotted from the field notes of actual surveys made by me or under my supervision, and that the same is true and convect to the best of my belief. When the field notes of actual surveys made by me or under my supervision, and that the same is true and convect to the best of my belief. When the field notes of actual surveys made by me or under my supervision, and that the same is true and convect to the best of my belief. When the field notes of actual surveys made by me or under my supervision, and that the same is true and convect to the best of my belief. When the field notes of actual surveys made by me or under my supervision, and that the same is true and convect to the best of my belief. When the field notes of actual surveys made by me or under my supervision, and that the same is true and convect to the best of my belief. When the field notes of actual surveys made by me or under my supervision, and that the same is true and convect to the best of my belief. The field notes of actual surveys made by me or under my supervision, and that the same is true and convect to the best of my belief. The field notes of the		
Signature Date	Signature and Seal of Pro	fessional Surveyor		
Melissa Guidry	23782	October 26, 2022		
Printed Name	Certificate Number	Date of Survey		
melissa_guidry@oxy.com Email Address	_			

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



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	Er	hergy, Minerals an Oil Co 1220 S	e of New Mez nd Natural Res nservation Di outh St. Fran ta Fe, NM 87	ources Departme ivision cis Dr.	ent			nit Electronically E-permitting
This Natural Gas Manag		ATURAL GA				PD) for a r	new or	recompleted well.
			<u>1 – Plan D</u> fective May 25,					
I. Operator: OXY US	A INC.		OGRID: _16	696		Date: _	0 9/	3 0/ 2 4
II. Type: 🗹 Original 🗆	Amendment	due to □ 19.15.27.	9.D(6)(a) NMA	C 🗆 19.15.27.9.D(6)(b) N	MAC 🗆 C	Other.	
If Other, please describe	:							
III. Well(s): Provide the be recompleted from a st					vells pr	oposed to	be dri	lled or proposed to
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D		cipated MCF/D	P	Anticipated oduced Water BBL/D
SEE ATTACHED								
IV. Central Delivery Po	oint Name: Lo	ost Tank 18 Centr	ral Processing	Facility	·	[See 19	9.15.2	7.9(D)(1) NMAC]
V. Anticipated Schedul proposed to be recomple					ell or s	et of wells	propo	sed to be drilled or
Well Name	API	Spud Date	TD Reached Date	Completion Commencement		Initial F Back D		First Production Date
SEE ATTACHED								
VI. Separation Equipm VII. Operational Pract Subsection A through F VIII. Best Managemen during active and planne	tices: 🗹 Attaci of 19.15.27.8 1 at Practices: 🖬	h a complete descr NMAC. 2 Attach a complet	iption of the ac	tions Operator will	l take t	o comply	with t	ne requirements of

Section 2 – Enhanced Plan EFFECTIVE APRIL 1, 2022

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

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

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

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

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

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

<u>Section 3 - Certifications</u> <u>Effective May 25, 2021</u>

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

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

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

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

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

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

Section 4 - Notices

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

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

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

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

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

Signature:	Melíssa Guídry
Printed Nam	ne: Melissa Guidry

Title: Regulatory Advisor Sr.

E-mail Address: melissa_guidry@oxy.com

Date: 09/30/2024

Phone: 713-497-2481

OIL CONSERVATION DIVISION

(Only applicable when submitted as a standalone form)

Approved By:

Title:

Approval Date:

Conditions of Approval:

III. Well(s)

Well Name	API	WELL LOCATION (ULSTR)	Footages	ANTICIPATED OIL BBL/D	ANTICIPATED GAS MCF/D	ANTICIPATED PROD WATER BBL/D
TOP SPOT 12_13 FED 12H	Pending	P-13-T2SS-R31E	520 FSL 1285 FEL	1500	6500	4000
TOP SPOT 12_13 FED COM 13H	Pending	P-13-T2SS-R31E	520 FSL 1225 FEL	2000	8000	5000
TOP SPOT 12_13 FED 41H	Pending	N-13-T2SS-R31E	335 FSL 1580 FWL	1500	6500	4000
TOP SPOT 12_13 FED 42H	Pending	N-13-T2SS-R31E	305 FSL 1580 FWL	1500	6500	4000
TOP SPOT 12_13 FED COM 43H	Pending	P-13-T2SS-R31E	520 FSL 1255 FEL	1500	6500	4000
TOP SPOT 12_13 FED COM 44H	Pending	P-13-T2SS-R31E	520 FSL 1195 FEL	1500	6500	4000

V. Anticipated Schedule

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
TOP SPOT 12_13 FED 12H	Pending	09/01/2025	10/01/2025	11/15/2025	12/14/2025	12/15/2025
TOP SPOT 12_13 FED COM 13H	Pending	09/01/2025	10/01/2025	11/15/2025	12/14/2025	12/15/2025
TOP SPOT 12_13 FED 41H	Pending	09/01/2025	10/01/2025	11/15/2025	12/14/2025	12/15/2025
TOP SPOT 12_13 FED 42H	Pending	09/01/2025	10/01/2025	11/15/2025	12/14/2025	12/15/2025
TOP SPOT 12_13 FED COM 43H	Pending	09/01/2025	10/01/2025	11/15/2025	12/14/2025	12/15/2025
TOP SPOT 12_13 FED COM 44H	Pending	09/01/2025	10/01/2025	11/15/2025	12/14/2025	12/15/2025

Central Delivery Point Name : Lost Tank 18 Central Processing Facility

Part VI. Separation Equipment

Operator will size the flowback separator to handle 6,000 Bbls of fluid and 6-10 MMscfd which is more than the expected peak rates for these wells. Each separator is rated to 250 psig, and pressure control valves and automated communication will cause the wells to shut in in the event of an upset at the facility, therefore no gas will be flared on pad during an upset. Current Oxy practices avoid use of flare or venting on pad, therefore if there is an upset or emergency condition at the facility, the wells will immediately shut down, and reassume production once the condition has cleared.

VII. Operational Practices

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility and fluids will be sent to the facility after initial flowback operations are complete, where a gas transporter system is in place. The gas produced from production facility will be dedicated to MarkWest Energy West Texas Gas Company LLC ("MarkWest") and will be connected to MarkWest's high pressure gathering system located in Lea and Eddy Counties, New Mexico and Loving and Culberson Counties, TX. OXY USA INC. ("OXY") will provide (periodically) to MarkWest a production forecast for wells being sent to their system. In addition, OXY and MarkWest will have periodic conference calls to discuss changes to production forecasts arising out of changes to drilling and completion schedules. Gas from these wells will be processed at MarWest's Preakness and Tornado Processing Plants located in Culberson County, TX and Loving County, Texas respectively. The actual flow of the gas will be based on compression operating parameters and gathering system pressures

Flowback Strategy

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on Enterprise system at that time. Based on current information, it is OXY's belief the system can take this gas upon completion of the well(s).

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

VIII. Best Management Practices

Alternatives to Reduce Flaring Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

Power Generation – On lease

Only a portion of gas is consumed operating the generator, remainder of gas will be flared

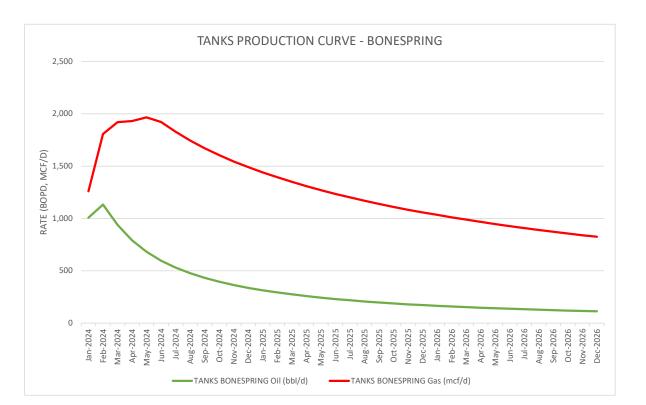
Compressed Natural Gas - On lease

Gas flared would be minimal, but might be uneconomical to operate when gas volume declines

NGL Removal – On lease

Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

	TANKS BONESPRING					
	Oil (bbl/d)	Gas (mcf/d)				
Jan-2024	1,006	1,259				
Feb-2024	1,133	1,807				
Mar-2024	938	1,919				
Apr-2024	790	1,931				
May-2024	681	1,965				
Jun-2024	596	1,922				
Jul-2024	530	1,827				
Aug-2024	477	1,744				
Sep-2024	432	1,671				
Oct-2024	395	1,604				
Nov-2024	363	1,543				
Dec-2024	337	1,490				
Jan-2025	314	1,441				
Feb-2025	293	1,393				
Mar-2025	274	1,350				
Apr-2025	258	1,309				
May-2025	243	1,271				
Jun-2025	229	1,234				
Jul-2025	218	1,200				
Aug-2025	207	1,169				
Sep-2025	197	1,139				
Oct-2025	188	1,110				
Nov-2025	179	1,083				
Dec-2025	172	1,058				
Jan-2026	165	1,034				
Feb-2026	159	1,011				
Mar-2026	152	988				
Apr-2026	147	967				
May-2026	141	947				
Jun-2026	136	927				
Jul-2026	132	908				
Aug-2026	127	890				
Sep-2026	123	873				
Oct-2026	120	856				
Nov-2026	116	840				
Dec-2026	112	825				



Oxy USA Inc. - TOP SPOT 12_13 FED 42H Drill Plan

1. Geologic Formations

TVD of Target (ft):	12240	Pilot Hole Depth (ft):	
Total Measured Depth (ft):	22810	Deepest Expected Fresh Water (ft):	820

Delaware Basin

Formation	MD-RKB (ft)	TVD-RKB (ft)	Expected Fluids
Rustler	820	820	
Salado	1123	1123	Salt
Castile	2876	2876	Salt
Delaware	4455	4455	Oil/Gas/Brine
Bell Canyon	4503	4503	Oil/Gas/Brine
Cherry Canyon	5417	5413	Oil/Gas/Brine
Brushy Canyon	6602	6580	Losses
Bone Spring	8389	8340	Oil/Gas
Bone Spring 1st	9528	9471	Oil/Gas
Bone Spring 2nd	10128	10071	Oil/Gas
Bone Spring 3rd	11154	11097	Oil/Gas
Wolfcamp	11683	11621	Oil/Gas
Penn			Oil/Gas
Strawn			Oil/Gas

*H2S, water flows, loss of circulation, abnormal pressures, etc.

2. Casing Program

		N	ID	TVD					
	Hole	From	То	From	То	Csg.	Csg Wt.		
Section	Size (in)	(ft)	(ft)	(ft)	(ft)	OD (in)	(ppf)	Grade	Conn.
Surface	17.5	0	880	0	880	13.375	54.5	J-55	BTC
Salt	12.25	0	4455	0	4455	10.75	45.5	L-80 HC	BTC-SC
Intermediate	9.875	0	12074	0	11975	7.625	29.7	L-80 HC	BTC
Production	6.75	0	22810	0	12240	5.5	23	P-110	Sprint-SF

All casing strings will be tested in accordance with 43 CFR part 3170 Subpart 3172

All Casing SF Values will meet or									
exceed those below									
SF	SF	Body SF	Joint SF						
Collapse	Burst	Tension	Tension						
1.00	1.100	1.4	1.4						

	Y or N
Is casing new? If used, attach certification as required in 43 CFR 3160	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	Y
Does the above casing design meet or exceed BLM's minimum standards?	Y
If not provide justification (loading assumptions, casing design criteria).	I
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching	37
the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back	
500' into previous casing?	
· · · · ·	
Is well located in R-111-P and SOPA?	Y
If yes, are the first three strings cemented to surface?	Y
Is 2 nd string set 100' to 600' below the base of salt?	Y
Ŭ	
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?	

.

3. Cementing Program

Section	Stage	Slurry:	Sacks	Yield (ft^3/ft)	Density (Ib/gal)	Excess:	тос	Placement	Description
Surface	1	Surface - Tail	919	1.33	14.8	100%	-	Circulate	Class C+Accel.
Int.1	1	Intermediate - Tail	85	1.33	14.8	20%	3 <i>,</i> 955	Circulate	Class C+Accel.
Int.1	1	Intermediate - Lead	623	1.73	12.9	50%	-	Circulate	Class Pozz+Ret.
Int. 2	1	Intermediate 1S - Tail	701	1.68	13.2	5%	6,852	Circulate	Class C+Ret., Disper.
Int. 2	2	Intermediate 2S - Tail BH	441	1.71	13.3	25%	3 <i>,</i> 955	Bradenhead Post-Frac	Class C+Accel.
Prod.	1	Production - Tail	634	1.84	13.3	25%	11,574	Circulate	Class C+Ret.

Offline Cementing Request

Oxy requests a variance to cement the 9.625" and/or 7.625" intermediate casing strings offline in accordance to the approved variance, EC Tran 461365. Please see Offline Cementing Variance attachment for further details.

Bradenhead CBL Request

Oxy requests permission to adjust the CBL requirement after bradenhead cement jobs, on 7-5/8" intermediate casings, as per the agreement reached in the OXY/BLM meeting on September 5, 2019. Please see Bradenhead CBL Variance attachment for further details.

4. Pressure Control Equipment

BOP installed and		Min.					TVD Depth
tested before drilling	Size?	Required		Туре	✓	Tested to:	(ft) per
which hole?		WP					Section:
		5M		Annular	\checkmark	70% of working pressure	
				Blind Ram	✓		
12.25" Hole	13-5/8"	5M		Pipe Ram		250 psi / 5000 psi	4455
		JIVI		Double Ram	✓	230 psi / 3000 psi	
			Other*				
		5M		Annular	√	70% of working pressure	11975
	13-5/8"			Blind Ram	\checkmark		
9.875" Hole		." 5M		Pipe Ram		250 psi / 5000 psi	
		5101		Double Ram	\checkmark	250 psi / 5000 psi	
			Other*				
		5M		Annular	✓	100% of working pressure	
				Blind Ram	√		
6.75" Hole	13-5/8"	10M		Pipe Ram		250 psi / 10000 psi	12240
				Double Ram	√	230 psi / 10000 psi	
			Other*				

*Specify if additional ram is utilized

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per 43 CFR part 3170 Subpart 3172 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.

5M Annular BOP Request

Per BLM's Memorandum No. NM-2017-008: *Decision and Rationale for a Variance Allowing the Use of a 5M Annular Preventer with a 10M BOP Stack*, Oxy requests to employ a 5M annular with a 10M BOPE stack in the pilot and lateral sections of the well and will ensure that two barriers to flow are maintained at all times. Please see Annular BOP Variance attachment for further details.

F							
	ation integrity test will be performed per 43 CFR part 3170 Subpart 3172.						
On Ex	ploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a						
press	ure integrity test of each casing shoe shall be performed. Will be tested in accordance with 43						
CFR p	part 3170 Subpart 3172.						
	· · · · · ·						
 A vari	iance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See						
attacl	hed for specs and hydrostatic test chart.						
γ	Are anchors required by manufacturer?						
A mu	ltibowl or a unionized multibowl wellhead system will be employed. The wellhead and						
conne	ection to the BOPE will meet all API 6A requirements. The BOP will be tested per 43 CFR part						
3170	Subpart 3172 after installation on the surface casing which will cover testing requirements for						
a max	kimum of 30 days. If any seal subject to test pressure is broken the system must be tested. We						
	est the flange connection of the wellhead with a test port that is directly in the flange. We are						
	osing that we will run the wellhead through the rotary prior to cementing surface casing as						
proposing that we will run the wellhead through the rotary prior to cementing surface casing as discussed with the BLM on October 8, 2015.							
diccu							

BOP Break Testing Request

Oxy requests permission to adjust the BOP break testing requirements as per the agreement reached in the OXY/BLM meeting on September 5, 2019. Please see BOP Break Testing Variance attachment for further details.

Oxy will use Cameron ADAPT wellhead system that uses an OEC top flange connection. This connection has been fully vetted and verified by API to Spec 6A and carries an API monogram.

5. Mud Program

	Depth		Depth -	TVD		Waight		Water
Section	From (ft)	To (ft)	From (ft)	To (ft)	Туре	Type Weight (ppg)		Loss
Surface	0	880	0	880	Water-Based Mud	8.6 - 8.8	40-60	N/C
Intermediate 1	880	4455	880	4455	Saturated Brine-Based or Oil-Based Mud	8.0 - 10.0	35-45	N/C
Intermediate 2	4455	12074	4455	11975	Water-Based or Oil- Based Mud	8.0 - 10.0	38-50	N/C
Production	12074	22810	11975	12240	Water-Based or Oil- Based Mud	9.5 - 13.5	38-50	N/C

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times. The following is a general list of products: Barite, Bentonite, Gypsum, Lime, Soda Ash, Caustic Soda, Nut Plug, Cedar Fiber, Cotton Seed Hulls, Drilling Paper, Salt Water Clay, CACL2. Oxy will use a closed mud system.

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

6. Logging and Testing Procedures

Loggi	ing, Coring and Testing.				
Yes	Will run GR from TD to surface (horizontal well – vertical portion of hole).				
Yes Stated logs run will be in the Completion Report and submitted to the BLM.					
No	Logs are planned based on well control or offset log information.				
No	Drill stem test? If yes, explain				
No	Coring? If yes, explain				

Addit	tional logs planned	Interval
No	Resistivity	
No	Density	
Yes	CBL	Production string
Yes	Mud log	Bone Spring – TD
No	PEX	

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	8593 psi
Abnormal Temperature	No
BH Temperature at deepest TVD	178°F

Pump high viscosity sweeps as needed for hole cleaning. The mud system will be monitored visually/manually as well as with an electronic PVT. The necessary mud products for additional weight and fluid loss control will be on location at all times. Appropriately weighted mud will be used to isolate potential gas, oil, and water zones until such time as casing can be cemented into place for zonal

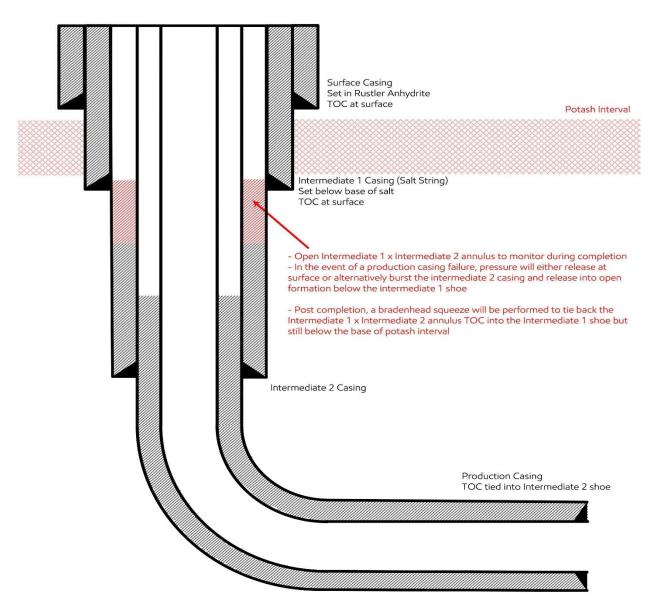
Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of 43 CFR part 3170 Subpart 3172. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

N	H2S is present
Y	H2S Plan attached

8. Other facets of operation

	Yes/No
Will the well be drilled with a walking/skidding operation? If yes, describe.	
We plan to drill the 2 well pad in batch by section: all surface sections, intermediate	Yes
sections and production sections. The wellhead will be secured with a night cap whenever	res
the rig is not over the well.	
Will more than one drilling rig be used for drilling operations? If yes, describe.	
Oxy requests the option to contract a Surface Rig to drill, set surface casing, and cement for	
this well. If the timing between rigs is such that Oxy would not be able to preset surface,	Yes
the Primary Rig will MIRU and drill the well in its entirety per the APD. Please see the	
attached document for information on the spudder rig.	
Total Estimated Cuttings Volume: 1980 bbls	•

Revision Date - May 21, 2024



4-String Design – Open Int 1 x Int 2 Annulus

Update May 2024:

OXY is aware of the R111-Q update and will comply with these requirements including (but not limited to):

1) Alignment with KPLA requirements per schematic above, leaving open annulus for pressure monitoring during frac and utilizing new casing that meets API standards

2) Contingency plans in place to divert formation fluids away from salt interval in event of

production casing failure

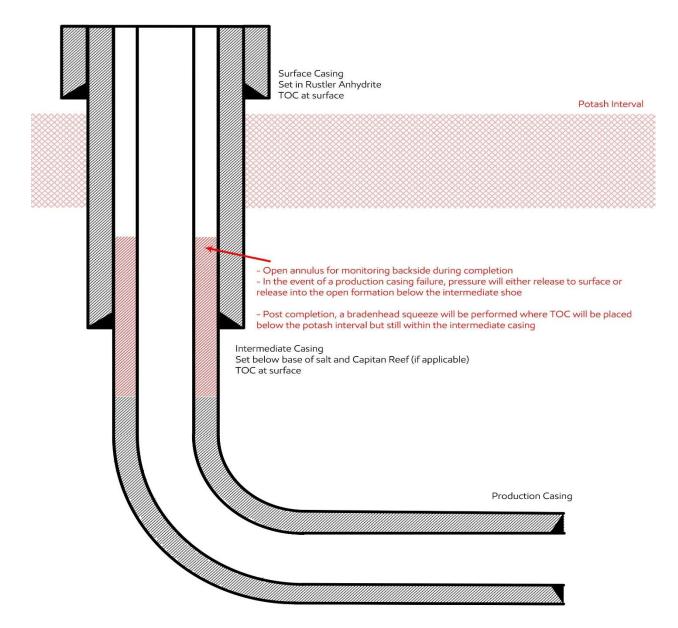
3) Bradenhead squeeze to be completed within 180days to tie back TOC to salt string at least 500ft but with top below Marker Bed 126

4) Production cement to be tied back no less than 500ft inside previous casing shoe

5) While drilling salt interval, separation distance to any active/inactive producing offset well will be ensured such that SF > 1.0; Anti-Collision Reports will be provided with APD Packages for review where SF < 1.5 against any applicable offset well, or where center-to-center separation against a blind or inclination only surveyed offset well is less than 500ft

Revision Date - May 21, 2024

3-String Design – Open Production Casing Annulus



Update May 2024:

OXY is aware of the R111-Q update and will comply with these requirements including (but not limited to):

1) Alignment with KPLA requirements per schematic above, leaving open annulus for pressure monitoring during frac and utilizing new casing that meets API standards

2) Contingency plans in place to divert formation fluids away from salt interval in event of production casing failure

3) Bradenhead squeeze for Production cement to be completed within 180days to tie back TOC to previous casing string at least 500ft but with top below Marker Bed 126

4) While drilling salt interval, separation distance to any active/inactive producing offset well will be ensured such that SF > 1.0; Anti-Collision Reports will be provided with APD Packages for review where SF < 1.5 against any applicable offset well, or where center-to-center separation against a blind or inclination only surveyed offset well is less than 500ft

OXY

PRD NM DIRECTIONAL PLANS (NAD 1983) Top Spot 12_13 Fed Com Top Spot 12_13 Fed 42H

Wellbore #1

Plan: Permitting Plan

Standard Planning Report

17 September, 2024

Database: Company: Project: Site: Well: Wellbore: Design:	PRD NM D Top Spot 1	2_13 Fed Con 2_13 Fed 42H 1	PLANS (NAD 1983) เ	TVD Reference MD Reference North Reference	e:	Well Top Spot RKB=25' @ 35 RKB=25' @ 35 Grid Minimum Curva	83.80ft 83.80ft	
Project	PRD NM DI	RECTIONAL F	PLANS (NAD 1983)					
Map System: Geo Datum: Map Zone:	US State Plar North America New Mexico E	an Datum 198	3	System Datum	:	Mean Sea Level Using geodetic so	cale factor	
Site	Top Spot 12	_13 Fed Com						
Site Position: From: Position Uncertaint	Мар у:	0.00 ft	Northing: Easting: Slot Radius:	514,494.3 725,461.3 13.20	56 usft Longi			32.413000 -103.736677
Well	Top Spot 12	_13 Fed 42H						
Well Position	+N/-S +E/-W	0.00 ft 0.00 ft	Northing: Easting:		04,342.86 usf 26,050.22 usf	Latitude: Longitude:		32.385087 -103.734953
Position Uncertaint Grid Convergence:	у	2.00 ft 0.32 °	Wellhead Ele	evation:	ft	Ground Level:		3,558.80 ft
Wellbore	Wellbore #1							
Magnetics	Model N	ame	Sample Date	Declination (°)		Dip Angle (°)	Field Streng (nT)	jth
	HDG	M_FILE	7/30/2024		6.33	59.97	47,502.80	000000
Design	Permitting P	lan						
Audit Notes:								
Version:			Phase:	PROTOTYPE	Tie On De	epth:	0.00	
Vertical Section:		Depth	From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)		ection (°)	
			0.00	0.00	0.00	1	1.83	
Plan Survey Tool P Depth From (ft)	rogram Depth To (ft)	Date 9/16 Survey (We		Tool Name	Rem	narks		
1 0.00	22,810.01	Permitting P	an (Wellbore #1)	B001Mc_MWD+F MWD+HRGM	IRGM_R5			

Database:	HOPSPP	Local Co-ordinate Reference:	Well Top Spot 12_13 Fed 42H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3583.80ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3583.80ft
Site:	Top Spot 12_13 Fed Com	North Reference:	Grid
Well:	Top Spot 12_13 Fed 42H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Plan Sections

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,504.00	0.00	0.00	4,504.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,503.50	10.00	147.54	5,498.44	-73.38	46.67	1.00	1.00	0.00	147.54	
8,613.35	10.00	147.54	8,561.09	-528.82	336.33	0.00	0.00	0.00	0.00	
9,612.85	0.00	0.00	9,555.53	-602.19	383.00	1.00	-1.00	0.00	180.00	
11,304.85	0.00	0.00	11,247.53	-602.19	383.00	0.00	0.00	0.00	0.00	
11,804.85	25.00	359.71	11,731.82	-494.83	382.45	5.00	5.00	0.00	359.71	PBHL (Top Spot
12,104.85	25.00	359.71	12,003.71	-368.05	381.80	0.00	0.00	0.00	0.00	
12,569.14	90.00	359.71	12,240.00	2.86	379.89	14.00	14.00	0.00	0.00	
22,810.26	90.00	359.71	12,240.00	10,243.85	327.32	0.00	0.00	0.00	0.00	PBHL (Top Spot

_				
Da	atabase:	HOPSPP	Local Co-ordinate Reference:	Well Top Spot 12_13 Fed 42H
Co	ompany:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3583.80ft
Pr	oject:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3583.80ft
Si	te:	Top Spot 12_13 Fed Com	North Reference:	Grid
W	ell:	Top Spot 12_13 Fed 42H	Survey Calculation Method:	Minimum Curvature
W	ellbore:	Wellbore #1		
De	esign:	Permitting Plan		

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00		0.00	400.00	0.00	0.00	0.00			
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	
									0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00 4,504.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.96	0.00 147.54	4,600.00	-0.68	0.00	-0.66	1.00	1.00	0.00
4,000.00	1.96	147.54	4,699.96	-0.68	1.80	-0.00	1.00	1.00	0.00
4,800.00	2.96	147.54	4,099.90	-2.83	4.10	-6.32	1.00	1.00	0.00
4,900.00	3.96	147.54	4,899.68	-11.54	7.34	-11.30	1.00	1.00	0.00
5,000.00	4.96	147.54	4,999.38	-18.10	11.51	-17.73	1.00	1.00	0.00
5,100.00	5.96	147.54	5,098.93	-26.13	16.62	-25.59	1.00	1.00	0.00
5,200.00	6.96	147.54 147.54	5,198.29	-35.63	22.66	-34.88	1.00	1.00	0.00
5,300.00	7.96	147.54	5,297.44	-46.58	29.63	-45.61	1.00	1.00	0.00
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Database: Company:	HOPSPP ENGINEERING DESIGNS	Local Co-ordinate Reference: TVD Reference:	Well Top Spot 12_13 Fed 42H RKB=25' @ 3583.80ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3583.80ft
Site:	Top Spot 12_13 Fed Com	North Reference:	Grid
Well:	Top Spot 12_13 Fed 42H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

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5,700.00 10.00 147.54 5,691.96 -102.15 64.97 -100.03 0.00 0.00 0.00 5,800.00 10.00 147.54 5,790.44 -116.80 74.28 -114.37 0.00 0.00 0.00 5,900.00 10.00 147.54 5,888.92 -131.44 83.60 -128.71 0.00 0.00 0.00 6,000.00 10.00 147.54 5,987.40 -146.09 92.91 -143.05 0.00 0.00 0.00 6,100.00 10.00 147.54 6,085.89 -160.73 102.23 -157.39 0.00 0.00 0.00	
5,800.00 10.00 147.54 5,790.44 -116.80 74.28 -114.37 0.00 0.00 0.00 5,900.00 10.00 147.54 5,888.92 -131.44 83.60 -128.71 0.00 0.00 0.00 6,000.00 10.00 147.54 5,987.40 -146.09 92.91 -143.05 0.00 0.00 0.00 6,100.00 10.00 147.54 6,085.89 -160.73 102.23 -157.39 0.00 0.00 0.00	
5,900.00 10.00 147.54 5,888.92 -131.44 83.60 -128.71 0.00 0.00 0.00 6,000.00 10.00 147.54 5,987.40 -146.09 92.91 -143.05 0.00 0.00 0.00 6,100.00 10.00 147.54 6,085.89 -160.73 102.23 -157.39 0.00 0.00 0.00	
6,000.00 10.00 147.54 5,987.40 -146.09 92.91 -143.05 0.00 0.00 0.00 6,100.00 10.00 147.54 6,085.89 -160.73 102.23 -157.39 0.00 0.00 0.00	
6,100.00 10.00 147.54 6,085.89 -160.73 102.23 -157.39 0.00 0.00 0.00	
6 200 00 10 00 147 54 6 184 37 -175 38 111 54 -171 73 0 00 0 00 0 00	
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6,300.00 10.00 147.54 6,282.85 -190.02 120.86 -186.07 0.00 0.00 0.00	
6,400.00 10.00 147.54 6,381.33 -204.67 130.17 -200.41 0.00 0.00 0.00	
6,500.00 10.00 147.54 6,479.81 -219.31 139.49 -214.75 0.00 0.00 0.00	ł
6,600.00 10.00 147.54 6,578.30 -233.96 148.80 -229.09 0.00 0.00 0.00	j –
6,700.00 10.00 147.54 6,676.78 -248.60 158.11 -243.43 0.00 0.00 0.00	i
6,800.00 10.00 147.54 6,775.26 -263.25 167.43 -257.77 0.00 0.00 0.00)
6,900.00 10.00 147.54 6,873.74 -277.89 176.74 -272.11 0.00 0.00 0.00)
7,000.00 10.00 147.54 6,972.23 -292.54 186.06 -286.45 0.00 0.00 0.00	
7,100.00 10.00 147.54 7,070.71 -307.18 195.37 -300.79 0.00 0.00 0.00 0.00	
7,200.00 10.00 147.54 7,169.19 -321.83 204.69 -315.13 0.00 0.00 0.00	
7,300.00 10.00 147.54 7,267.67 -336.48 214.00 -329.47 0.00 0.00 0.00	
7,400.00 10.00 147.54 7,366.16 -351.12 223.32 -343.81 0.00 0.00 0.00	
7,500.00 10.00 147.54 7,464.64 -365.77 232.63 -358.15 0.00 0.00 0.00	
7,600.00 10.00 147.54 7,563.12 -380.41 241.94 -372.49 0.00 0.00 0.00 7,700.00 10.00 147.54 7,661.60 -395.06 251.26 -386.83 0.00 0.00 0.00	
7,800.00 10.00 147.54 7,760.08 -409.70 260.57 -401.17 0.00 0.00 0.00	
7,900.00 10.00 147.54 7,858.57 -424.35 269.89 -415.51 0.00 0.00 0.00	
8,000.00 10.00 147.54 7,957.05 -438.99 279.20 -429.85 0.00 0.00 0.00	
8,100.00 10.00 147.54 8,055.53 -453.64 288.52 -444.19 0.00 0.00 0.00	
8,200.00 10.00 147.54 8,154.01 -468.28 297.83 -458.53 0.00 0.00 0.00	
8,300.00 10.00 147.54 8,252.50 -482.93 307.15 -472.87 0.00 0.00 0.00	
8,400.00 10.00 147.54 8,350.98 -497.57 316.46 -487.21 0.00 0.00 0.00	
8,500.00 10.00 147.54 8,449.46 -512.22 325.77 -501.55 0.00 0.00 0.00	
8,600.00 10.00 147.54 8,547.94 -526.86 335.09 -515.89 0.00 0.00 0.00	
8,613.35 10.00 147.54 8,561.09 -528.82 336.33 -517.81 0.00 0.00 0.00)
8,700.00 9.13 147.54 8,646.54 -540.96 344.06 -529.70 1.00 -1.00 0.00	
8,800.00 8.13 147.54 8,745.40 -553.62 352.11 -542.09 1.00 -1.00 0.00	
8,900.00 7.13 147.54 8,844.52 -564.82 359.23 -553.06 1.00 -1.00 0.00	
9,000.00 6.13 147.54 8,943.85 -574.56 365.43 -562.60 1.00 -1.00 0.00	i
9,100.00 5.13 147.54 9,043.36 -582.84 370.69 -570.70 1.00 -1.00 0.00	
9,200.00 4.13 147.54 9,143.04 -589.65 375.02 -577.37 1.00 -1.00 0.00)
9,300.00 3.13 147.54 9,242.83 -594.99 378.42 -582.60 1.00 -1.00 0.00	
9,400.00 2.13 147.54 9,342.73 -598.86 380.88 -586.39 1.00 -1.00 0.00	
9,500.00 1.13 147.54 9,442.69 -601.25 382.40 -588.74 1.00 -1.00 0.00	
9,600.00 0.13 147.54 9,542.68 -602.18 382.99 -589.64 1.00 -1.00 0.00	
9,612.85 0.00 0.00 9,555.53 -602.19 383.00 -589.65 1.00 -1.00 0.00	
9,700.00 0.00 9,642.68 -602.19 383.00 -589.65 0.00 0.00 0.00 0.00	
9,800.00 0.00 0.00 9,742.68 -602.19 383.00 -589.65 0.00 0.00 0.00 0.00	
9,900.00 0.00 0.00 9,842.68 -602.19 383.00 -589.65 0.00 0.00 0.00 0.00	
10,000.00 0.00 0.00 9,042.08 -002.19 383.00 -389.05 0.00 0.00 0.00 0.00 0.00	
10,100.00 0.00 0.00 10,042.68 -602.19 383.00 -589.65 0.00 0.00 0.00 0.00	
10,100.00 0.00 0.00 10,042.88 -602.19 383.00 -589.65 0.00 0.00 0.00 0.00 0.00 0.00	
10,200.00 0.00 0.00 10,142.08 -002.19 383.00 -389.05 0.00 0.00 0.00 0.00	
10,500.00 0.00 0.00 10,442.68 -602.19 383.00 -589.65 0.00 0.00 0.00	

Database: Company:	HOPSPP ENGINEERING DESIGNS	Local Co-ordinate Reference: TVD Reference:	Well Top Spot 12_13 Fed 42H RKB=25' @ 3583.80ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3583.80ft
Site:	Top Spot 12_13 Fed Com	North Reference:	Grid
Well:	Top Spot 12_13 Fed 42H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
10,600.00	0.00	0.00	10,542.68	-602.19	383.00	-589.65	0.00	0.00	0.00
10,700.00	0.00	0.00	10,642.68	-602.19	383.00	-589.65	0.00	0.00	0.00
10,700.00	0.00	0.00	10,742.68	-602.19	383.00	-589.65	0.00	0.00	0.00
10,900.00	0.00	0.00	10.842.68	-602.19	383.00	-589.65	0.00	0.00	0.00
11,000.00	0.00	0.00	10,942.68	-602.19	383.00	-589.65	0.00	0.00	0.00
11,100.00	0.00 0.00	0.00 0.00	11,042.68 11.142.68	-602.19 -602.19	383.00 383.00	-589.65 -589.65	0.00 0.00	0.00 0.00	0.00 0.00
11,200.00			,						
11,300.00	0.00	0.00	11,242.68	-602.19	383.00	-589.65	0.00	0.00	0.00
11,304.85	0.00	0.00	11,247.53	-602.19	383.00	-589.65	0.00	0.00	0.00
11,400.00	4.76	359.71	11,342.57	-598.24	382.98	-585.71	5.00	5.00	0.00
11,500.00	9.76	359.71	11,441.74	-585.62	382.91	-573.09	5.00	5.00	0.00
11,600.00	14.76	359.71	11,539.43	-564.39	382.81	-551.88	5.00	5.00	0.00
11,700.00	19.76	359.71	11,634.89	-534.74	382.65	-522.24	5.00	5.00	0.00
11,800.00	24.76	359.71	11,727.41	-496.87	382.46	-484.40	5.00	5.00	0.00
11,804.85	25.00	359.71	11,731.82	-494.83	382.45	-482.36	5.00	5.00	0.00
11,900.00	25.00	359.71	11,818.05	-454.62	382.24	-442.18	0.00	0.00	0.00
12,000.00	25.00	359.71	11,908.68	-412.36	382.03	-399.95	0.00	0.00	0.00
12,100.00	25.00	359.71	11,999.31	-370.10	381.81	-357.71	0.00	0.00	0.00
12,104.85	25.00	359.71	12,003.71	-368.05	381.80	-355.67	0.00	0.00	0.00
12,200.00	38.32	359.71	12,084.51	-318.22	381.54	-305.87	14.00	14.00	0.00
12,300.00	52.32	359.71	12,154.65	-247.29	381.18	-234.99	14.00	14.00	0.00
12,400.00	66.32	359.71	12,205.55	-161.50	380.74	-149.26	14.00	14.00	0.00
12,500.00	80.32	359.71	12,234.18	-65.95	380.25	-53.77	14.00	14.00	0.00
12,569.14	90.00	359.71	12,240.00	2.86	379.89	14.99	14.00	14.00	0.00
12,600.00	90.00	359.71	12,240.00	33.72	379.74	45.83	0.00	0.00	0.00
12,700.00	90.00	359.71	12,240.00	133.72	379.22	145.76	0.00	0.00	0.00
12,800.00	90.00	359.71	12,240.00	233.72	378.71	245.69	0.00	0.00	0.00
12,900.00	90.00	359.71	12,240.00	333.72	378.20	345.63	0.00	0.00	0.00
13,000.00	90.00	359.71	12,240.00	433.72	377.68	445.56	0.00	0.00	0.00
13,100.00	90.00	359.71	12,240.00	533.72	377.17	545.49	0.00	0.00	0.00
13,200.00	90.00	359.71	12,240.00	633.71	376.66	645.42	0.00	0.00	0.00
13,300.00	90.00	359.71	12,240.00	733.71	376.14	745.35	0.00	0.00	0.00
13,400.00	90.00	359.71	12,240.00	833.71	375.63	845.28	0.00	0.00	0.00
13,500.00	90.00	359.71	12,240.00	933.71	375.11	945.21	0.00	0.00	0.00
13,600.00	90.00	359.71	12,240.00	1,033.71	374.60	1,045.14	0.00	0.00	0.00
13,700.00	90.00	359.71	12,240.00	1,133.71	374.09	1,145.08	0.00	0.00	0.00
13,800.00	90.00	359.71	12,240.00	1,233.71	373.57	1,245.01	0.00	0.00	0.00
13,900.00	90.00	359.71	12,240.00	1,333.70	373.06	1,344.94	0.00	0.00	0.00
14,000.00 14,100.00	90.00 90.00	359.71 359.71	12,240.00 12,240.00	1,433.70 1,533.70	372.55 372.03	1,444.87 1,544.80	0.00 0.00	0.00 0.00	0.00 0.00
				,					
14,200.00	90.00	359.71	12,240.00	1,633.70	371.52	1,644.73	0.00	0.00	0.00
14,300.00	90.00	359.71	12,240.00	1,733.70	371.01	1,744.66	0.00	0.00	0.00
14,400.00	90.00	359.71	12,240.00	1,833.70	370.49	1,844.60	0.00	0.00	0.00
14,500.00 14,600.00	90.00 90.00	359.71 359.71	12,240.00 12,240.00	1,933.70 2,033.70	369.98 369.47	1,944.53 2,044.46	0.00 0.00	0.00 0.00	0.00 0.00
14,700.00 14,800.00	90.00 90.00	359.71 359.71	12,240.00 12,240.00	2,133.69 2,233.69	368.95 368.44	2,144.39 2,244.32	0.00 0.00	0.00 0.00	0.00 0.00
14,800.00	90.00	359.71	12,240.00	2,233.69	367.93	2,244.32 2,344.25	0.00	0.00	0.00
14,900.00	90.00	359.71	12,240.00	2,333.69	367.93	2,344.25 2,444.18	0.00	0.00	0.00
15,100.00	90.00	359.71	12,240.00	2,433.69	366.90	2,444.10 2,544.11	0.00	0.00	0.00
15,200.00	90.00	359.71	12,240.00	2,633.69	366.39	2,644.05	0.00	0.00	0.00
15,200.00	90.00	359.71	12,240.00	2,033.69	365.87	2,044.05 2,743.98	0.00	0.00	0.00
15,400.00	90.00	359.71	12,240.00	2,833.69	365.36	2,843.91	0.00	0.00	0.00
15,500.00	90.00	359.71	12,240.00	2,933.68	364.85	2,943.84	0.00	0.00	0.00
15,600.00	90.00	359.71	12,240.00	3,033.68	364.33	3,043.77	0.00	0.00	0.00
			,_ 10.00	0,000.00		0,010.11	0.00	0.00	0.00

Database:	HOPSPP	Local Co-ordinate Reference:	Well Top Spot 12_13 Fed 42H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3583.80ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3583.80ft
Site:	Top Spot 12_13 Fed Com	North Reference:	Grid
Well:	Top Spot 12_13 Fed 42H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
15,700.00	90.00	359.71	12,240.00	3,133.68	363.82	3,143.70	0.00	0.00	0.00
15,800.00	90.00	359.71	12,240.00	3,233.68	363.31	3,243.63	0.00	0.00	0.00
15,900.00	90.00	359.71	12,240.00	3,333.68	362.79	3,343.56	0.00	0.00	0.00
16,000.00	90.00	359.71	12,240.00	3,433.68	362.28	3,443.50	0.00	0.00	0.00
16,100.00	90.00	359.71	12,240.00	3,533.68	361.77	3,543.43	0.00	0.00	0.00
16,200.00	90.00	359.71	12,240.00	3,633.67	361.25	3,643.36	0.00	0.00	0.00
16,300.00	90.00	359.71	12,240.00	3,733.67	360.74	3,743.29	0.00	0.00	0.00
16,400.00	90.00	359.71	12,240.00	3,833.67	360.23	3,843.22	0.00	0.00	0.00
16,500.00	90.00	359.71	12,240.00	3,933.67	359.71	3,943.15	0.00	0.00	0.00
16,600.00	90.00	359.71	12,240.00	4,033.67	359.20	4,043.08	0.00	0.00	0.00
16,700.00	90.00	359.71	12,240.00	4,133.67	358.69	4,143.01	0.00	0.00	0.00
16,800.00	90.00	359.71	12,240.00	4,233.67	358.17	4,242.95	0.00	0.00	0.00
16,900.00	90.00	359.71	12,240.00	4,333.67	357.66	4,342.88	0.00	0.00	0.00
17,000.00	90.00	359.71	12,240.00	4,433.66	357.15	4,442.81	0.00	0.00	0.00
17,100.00	90.00	359.71	12,240.00	4,533.66	356.63	4,542.74	0.00	0.00	0.00
17,200.00	90.00	359.71	12,240.00	4,633.66	356.12	4,642.67	0.00	0.00	0.00
17,300.00	90.00	359.71	12,240.00	4,733.66	355.61	4,742.60	0.00	0.00	0.00
17,400.00	90.00	359.71	12,240.00	4,833.66	355.09	4,842.53	0.00	0.00	0.00
17,500.00 17,600.00	90.00 90.00	359.71 359.71	12,240.00 12,240.00	4,933.66 5,033.66	354.58 354.07	4,942.46 5,042.40	0.00 0.00	0.00 0.00	0.00 0.00
17,700.00	90.00	359.71	12,240.00	5,133.65	353.55	5,142.33	0.00	0.00	0.00
17,800.00 17,900.00	90.00 90.00	359.71 359.71	12,240.00 12,240.00	5,233.65 5,333.65	353.04 352.53	5,242.26 5,342.19	0.00 0.00	0.00 0.00	0.00 0.00
18,000.00	90.00	359.71	12,240.00	5,433.65	352.03	5,442.19	0.00	0.00	0.00
18,100.00	90.00	359.71	12,240.00	5,533.65	351.50	5,542.05	0.00	0.00	0.00
18,200.00	90.00	359.71	12,240.00	5,633.65	350.99	5,641.98	0.00	0.00	0.00
18,300.00	90.00	359.71	12,240.00	5,733.65	350.99	5,041.90 5,741.92	0.00	0.00	0.00
18,400.00	90.00	359.71	12,240.00	5,833.65	349.96	5,841.85	0.00	0.00	0.00
18,500.00	90.00	359.71	12,240.00	5,933.64	349.45	5,941.78	0.00	0.00	0.00
18,600.00	90.00	359.71	12,240.00	6,033.64	348.93	6,041.71	0.00	0.00	0.00
18,700.00	90.00	359.71	12,240.00	6,133.64	348.42	6,141.64	0.00	0.00	0.00
18,800.00	90.00	359.71	12,240.00	6,233.64	347.91	6,241.57	0.00	0.00	0.00
18,900.00	90.00	359.71	12,240.00	6,333.64	347.39	6,341.50	0.00	0.00	0.00
19,000.00	90.00	359.71	12,240.00	6,433.64	346.88	6,441.43	0.00	0.00	0.00
19,100.00	90.00	359.71	12,240.00	6,533.64	346.37	6,541.37	0.00	0.00	0.00
19,200.00	90.00	359.71	12,240.00	6,633.64	345.85	6,641.30	0.00	0.00	0.00
19,300.00	90.00	359.71	12,240.00	6,733.63	345.34	6,741.23	0.00	0.00	0.00
19,400.00	90.00	359.71	12,240.00	6,833.63	344.83	6,841.16	0.00	0.00	0.00
19,500.00	90.00	359.71	12,240.00	6,933.63	344.31	6,941.09	0.00	0.00	0.00
19,600.00	90.00	359.71	12,240.00	7,033.63	343.80	7,041.02	0.00	0.00	0.00
19,700.00	90.00	359.71	12,240.00	7,133.63	343.29	7,140.95	0.00	0.00	0.00
19,800.00	90.00	359.71	12,240.00	7,233.63	342.77	7,240.88	0.00	0.00	0.00
19,900.00	90.00	359.71	12,240.00	7,333.63	342.26	7,340.82	0.00	0.00	0.00
20,000.00 20,100.00	90.00 90.00	359.71 359.71	12,240.00 12,240.00	7,433.62 7,533.62	341.75 341.23	7,440.75 7,540.68	0.00 0.00	0.00 0.00	0.00 0.00
			12,240.00						
20,200.00 20,300.00	90.00 90.00	359.71 359.71	12,240.00 12,240.00	7,633.62 7,733.62	340.72 340.20	7,640.61 7.740.54	0.00 0.00	0.00 0.00	0.00 0.00
20,300.00	90.00	359.71	12,240.00	7,833.62	339.69	7,840.47	0.00	0.00	0.00
20,500.00	90.00	359.71	12,240.00	7,933.62	339.18	7,940.40	0.00	0.00	0.00
20,600.00	90.00	359.71	12,240.00	8,033.62	338.66	8,040.33	0.00	0.00	0.00
20,700.00	90.00	359.71	12,240.00	8,133.62	338.15	8,140.27	0.00	0.00	0.00
20,800.00	90.00	359.71	12,240.00	8,233.61	337.64	8,240.20	0.00	0.00	0.00
20,900.00	90.00	359.71	12,240.00	8,333.61	337.12	8,340.13	0.00	0.00	0.00
21,000.00	90.00	359.71	12,240.00	8,433.61	336.61	8,440.06	0.00	0.00	0.00
21,100.00	90.00	359.71	12,240.00	8,533.61	336.10	8,539.99	0.00	0.00	0.00
۰ <u>ــــــــــــــــــــــــــــــــــــ</u>									

Database:	HOPSPP	Local Co-ordinate Reference:	Well Top Spot 12_13 Fed 42H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3583.80ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3583.80ft
Site:	Top Spot 12_13 Fed Com	North Reference:	Grid
Well:	Top Spot 12_13 Fed 42H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Measu Dept (ft)		Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
21,20).00 90.0) 359.71	12,240.00	8,633.61	335.58	8,639.92	0.00	0.00	0.00
21,30).00 90.0	359.71	12,240.00	8,733.61	335.07	8,739.85	0.00	0.00	0.00
21,40).00 90.0	359.71	12,240.00	8,833.61	334.56	8,839.78	0.00	0.00	0.00
21,50).00 90.0	359.71	12,240.00	8,933.60	334.04	8,939.72	0.00	0.00	0.00
21,60	0.00 90.00	359.71	12,240.00	9,033.60	333.53	9,039.65	0.00	0.00	0.00
21,70	0.00 90.00	359.71	12,240.00	9,133.60	333.02	9,139.58	0.00	0.00	0.00
21,80).00 90.00	359.71	12,240.00	9,233.60	332.50	9,239.51	0.00	0.00	0.00
21,90).00 90.00	359.71	12,240.00	9,333.60	331.99	9,339.44	0.00	0.00	0.00
22,00).00 90.00	359.71	12,240.00	9,433.60	331.48	9,439.37	0.00	0.00	0.00
22,10	0.00 90.00	359.71	12,240.00	9,533.60	330.96	9,539.30	0.00	0.00	0.00
22,20	0.00 90.00	359.71	12,240.00	9,633.60	330.45	9,639.23	0.00	0.00	0.00
22,30).00 90.00	359.71	12,240.00	9,733.59	329.94	9,739.17	0.00	0.00	0.00
22,40).00 90.00	359.71	12,240.00	9,833.59	329.42	9,839.10	0.00	0.00	0.00
22,50).00 90.00	359.71	12,240.00	9,933.59	328.91	9,939.03	0.00	0.00	0.00
22,60	0.00 90.00	359.71	12,240.00	10,033.59	328.40	10,038.96	0.00	0.00	0.00
22,70).00 90.00	359.71	12,240.00	10,133.59	327.88	10,138.89	0.00	0.00	0.00
22,80	0.00 90.00	359.71	12,240.00	10,233.59	327.37	10,238.82	0.00	0.00	0.00
22,81).26 90.0	359.71	12,240.00	10,243.85	327.32	10,249.08	0.00	0.00	0.00

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
KOP (Top Spot 12_13 - plan misses target o - Point	0.00 center by 71	0.00 3.73ft at 0.0	0.00 00ft MD (0.0	-602.19 0 TVD, 0.00 N	383.11 0.00 E)	503,740.70	726,433.31	32.383426	-103.733723
FTP (Top Spot 12_13 - plan misses target o - Point	0.00 center by 48		12,240.00 82.49ft MD	-202.25 (12198.17 TV	380.85 D, -177.38 N	504,140.62 380.82 E)	726,431.05	32.384526	-103.733723
PBHL (Top Spot - plan hits target cent - Point	0.00 ter	0.00	12,240.00	10,243.85	327.32	514,586.16	726,377.52	32.413238	-103.733707

Measured Vertical	Casing	Hole
Depth Depth	Diameter	Diameter
(ft) (ft)	Name (in)	(in)
12,074.00 11,975.75 7-5	8" 5.500	

	100000		
Database:	HOPSPP	Local Co-ordinate Reference:	Well Top Spot 12_13 Fed 42H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3583.80ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3583.80ft
Site:	Top Spot 12_13 Fed Com	North Reference:	Grid
Well:	Top Spot 12_13 Fed 42H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
819.80	819.80	RUSTLER			
1,122.80	1,122.80	SALADO			
2,875.80	2,875.80	CASTILE			
4,454.80	4,454.80	DELAWARE			
4,502.80	4,502.80	BELL CANYON			
5,416.65	5,412.80	CHERRY CANYON			
6,601.53	6,579.80	BRUSHY CANYON			
8,388.65	8,339.80	BONE SPRING			
9,528.12	9,470.80	BONE SPRING 1ST			
10,128.12	10,070.80	BONE SPRING 2ND			
11,154.12	11,096.80	BONE SPRING 3RD			
11,685.06	11,620.80	WOLFCAMP			
11,700.96	11,635.80	WOLFCAMP			

Me	easured	Vertical	Local Coor	dinates	
ſ	Depth (ft)	Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment
	4,504.00	4,504.00	0.00	0.00	Build 1°/100'
	5,503.50	5,498.44	-73.38	46.67	Hold 10° Tangent
	8,613.35	8,561.09	-528.82	336.33	Drop 1°/100'
	9,612.85	9,555.53	-602.19	383.00	Hold Vertical
1	1,304.85	11,247.53	-602.19	383.00	Build 5°/100'
1	1,804.85	11,731.82	-494.83	382.45	Hold 25°
1	2,104.85	12,003.71	-368.05	381.80	KOP, Build 14°/100'
1	2,569.14	12,240.00	2.86	379.89	Landing Point
2	2,810.26	12,240.00	10,243.85	327.32	TD at 22810.26' MD

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:OXY USA INC.WELL NAME & NO.:TOP SPOT 12 FED 42HLOCATION:Sec 13, T22S, R31ECOUNTY:Eddy County, New Mexico

COA

H ₂ S	O No		• Yes	
Potash /	O None	O Secretary	• R-111-Q	Open Annulus
WIPP	4-String Design: Ope	n 1st Int x 2nd Annulus (ICP 2 below Relief Z	one) VIPP
Cave / Karst	• Low	O Medium	O High	Critical
Wellhead	Conventional	Multibowl	O Both	O Diverter
Cementing	Primary Squeeze	🗆 Cont. Squeeze	EchoMeter	DV Tool
Special Req	🗆 Capitan Reef	🗆 Water Disposal	COM	🗆 Unit
Waste Prev.	○ Self-Certification	O Waste Min. Plan	• APD Submitted prior to 06/10/2024	
Additional	✓ Flex Hose	Casing Clearance	Pilot Hole	Break Testing
Language	Four-String	Offline Cementing	🗆 Fluid-Filled	

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated AT SPUD. As a result, the Hydrogen Sulfide area must meet all requirements from 43 CFR 3176, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

APD is within the R-111-Q defined boundary. Operator must follow all procedures and requirements listed within the updated order.

B. CASING

- 1. The **13-3/8** inch surface casing shall be set at approximately **880** feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) 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 **<u>8 hours</u>**

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or <u>500 pounds compressive strength</u>, 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.
- The 9-5/8 inch intermediate salt protection casing shall be set at approximately 4455 feet TVD. Please set Salt Protection string prior to entering hydrocarbon bearing zone (Delaware). CEMENT VOLUMES LISTED ARE INADEQUATE FOR THE SALT PROTECTION STRING. PLEASE REVIEW AND REVISE WITH 25% EXCESS. The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:

Option 1 (Single Stage):

- 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, Capitan Reef, or potash.
- 3. The **7-5/8** inch second intermediate casing shall be set at approximately **12,074** feet. *KEEP CASING FULL FOR COLLAPSE SF*. The minimum required fill of cement behind the **7-5/8** inch intermediate casing is:

Option 1 (Primary + Post Frac Bradenhead):

- Cement should tie-back **500 feet** into the previous casing but not higher than USGS Marker Bed No. 126. <u>Operator must verify top of cement per R-111-Q</u> <u>requirements.</u> Submit results to the BLM. If cement does not circulate, contact the appropriate BLM office. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, Capitan Reef, or potash.
- A monitored open annulus will be incorporated during completion by leaving the Intermediate Casing 1 x Intermediate Casing 2 annulus un-cemented and monitored inside the Intermediate String. Operator must follow monitoring requirements listed within R-111-Q. Tieback requirements shall be met within 180 days.

Operator has proposed to pump down **intermediate 1 x intermediate 2** annulus post completion. **Operator must run Echo-meter to verify Cement Slurry/Fluid top in the annulus OR operator shall run a CBL from TD of the intermediate 2 casing to surface after the second stage BH to verify TOC.** Submit results to the BLM. No displacement fluid/wash out shall be utilized at the top of the cement slurry during second stage bradenhead when running Echo-meter if cement is required to surface. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.

Approval Date: 05/30/2025

Operator has proposed an open annulus completion in R-111-Q. Operator shall provide a method of verification pre-completion top of cement. <u>Submit results to the BLM. Pressure monitoring device and Pressure Safety Valves must be installed at surface on both the intermediate annulus and the production annulus for the life of the well.</u>

In the event of a casing failure during completion, the operator must contact the BLM at (575-706-2779) and (575-361-2822 Eddy County).

4. The **5-1**/2 inch production casing shall be set at approximately **22,810** feet. The minimum required fill of cement behind the **5-1**/2 inch production casing is:

Option 1 (Single Stage):

• Cement should tie-back **500 feet** into the previous casing but not higher than USGS Marker Bed No. 126. <u>Operator must verify top of cement per R-111-Q</u> requirements. Submit results to the BLM. If cement does not circulate, contact the appropriate BLM office. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, Capitan Reef, or potash.

C. 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).
 - Operator has proposed a multi-bowl wellhead assembly. 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 and intermediate casing shoe shall be 10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 3500 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 43 CFR 3172 must be followed.

D. SPECIAL REQUIREMENT (S)

WIPP Requirements

The proposed surface well or bottom hole is located within 330 feet of the WIPP Land Withdrawal Area boundary. As a result, the operator is required to submit daily drilling reports, logs and deviation survey information to the Bureau of Land Management Engineering Department and the U.S. Department of Energy per requirements of the Joint Powers Agreement until a total vertical depth of 7,000 feet is reached. These reports will have at a minimum, the depth of any excess mud returns (brine flows), the rate of penetration and a clearly marked section showing the deviation for each 500-foot interval. Operator may be required to do more frequent deviation surveys based on the daily information submitted and may be required to take other corrective measures. Information will also be provided to the New Mexico Oil Conservation Division after drilling activities have been completed. Upon completion of the well, the operator shall submit a complete directional survey. Any future entry into the well for purposes of completing additional drilling will require supplemental information.

Any oil and gas well operator drilling within one mile of the WIPP Boundary must notify WIPP as soon as possible if any of the following conditions are encountered during oil and gas operations: R-111-Q Amendment - Notification to Operators (Potash)

- a) Indication of any well collision event,
- b) Suspected well fluid flow (oil, gas, or produced water) outside of casing,
- c) Sustained annulus pressure between the 1st intermediate and next innermost casing string in excess of 500 psi above the baseline pressure of the well, or above 1500 psi total,
- d) Increasing pressure buildup rates (psi/day) across multiple successive bleed-off cycles on the annulus between the 1st intermediate and next innermost casing during well production, or
- e) Sustained losses in excess of 50% through the salt formation during drilling.

The operator can email the required information to <u>OilGasReports@wipp.ws</u>. Attached files must not be greater than 20 MB. Call WIPP Tech Support at 575-234-7422, during the hours 7:00am to 4:30pm, if there are any issues sending to this address.

Communitization Agreement

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, 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.
- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in 43 CFR 3171 and 3172.

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- 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. <u>When the</u> <u>Communitization Agreement number is known, it shall also be on the sign.</u>

BOPE Break Testing Variance

- BOPE Break Testing is ONLY permitted for intervals utilizing a 5M BOPE or less. (Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP.)
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer (575-706-2779) prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (575-361-2822 Eddy County) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per **43 CFR 3172**.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

Offline Cementing

Approved for surface and intermediate intervals. Notify the BLM prior to the commencement of any offline cementing procedure.

Casing Clearance

Overlap clearance OK.

Approval Date: 05/30/2025

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

Contact Eddy County Petroleum Engineering Inspection Staff:

Email or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220; BLM NM CFO DrillingNotifications@BLM.GOV; (575) 361-2822

- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - i. Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - iii. BOP/BOPE test to be conducted per **43 CFR 3172** as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 3. For intervals in which cement to surface is required, cement to surface should be verified with a visual check and density or pH check to differentiate cement from spacer and drilling mud. The results should be documented in the driller's log and daily reports.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

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- Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends of both lead and tail cement, 2) until cement has been in place at least <u>8 hours</u>. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. <u>Wait on cement (WOC) for Water Basin:</u> After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least <u>8 hours</u>. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
- 8. Whenever a casing string is cemented in the R-111-Q potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR 3172**.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's

requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.

- 3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - ii. 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.
 - iii. Manufacturer representative shall install the test plug for the initial BOP test.
 - iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
 - v. 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.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - ii. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve

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open. (only applies to single stage cement jobs, prior to the cement setting up.)

- iii. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to 43 CFR 3172 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- iv. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- v. The results of the test shall be reported to the appropriate BLM office.
- vi. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- vii. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- viii. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per 43 CFR 3172.

C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be

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disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

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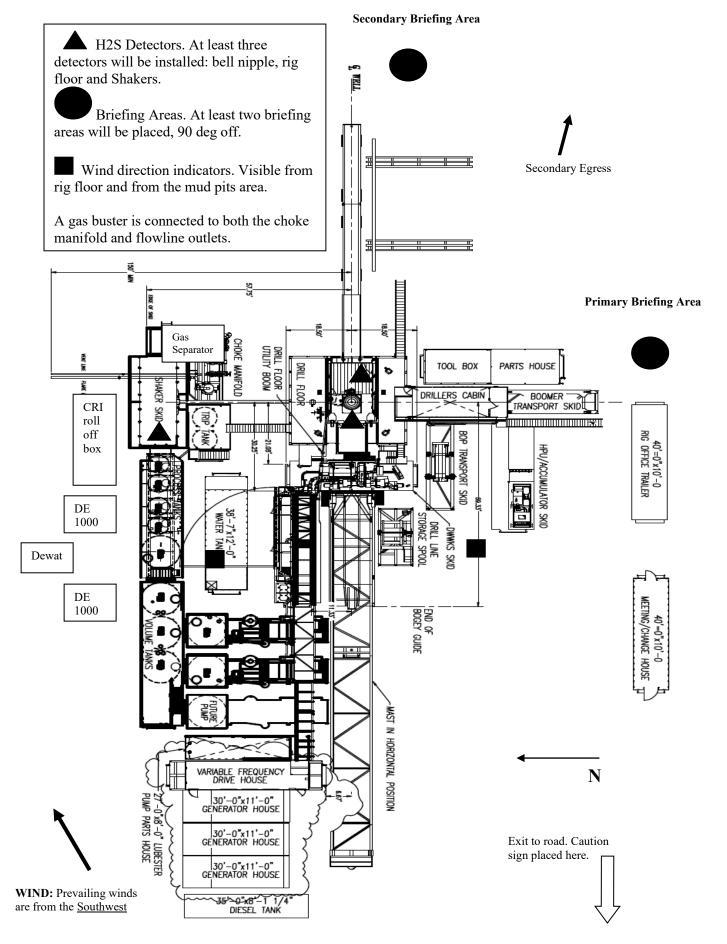


Permian Drilling Hydrogen Sulfide Drilling Operations Plan

Open drill site. No homes or buildings are near the proposed location.

1. Escape

Personnel shall escape upwind of wellbore in the event of an emergency gas release. Escape can take place through the lease road on the Southeast side of the location. Personnel need to move to a safe distance and block the entrance to location. If the primary route is not an option due to the wind direction, then a secondary egress route should be taken.





Permian Drilling Hydrogen Sulfide Drilling Operations Plan New Mexico

<u>Scope</u>

This contingency plan establishes guidelines for the public, all company employees, and contract employees who's work activities may involve exposure to hydrogen sulfide (H2S) gas.

While drilling this well, it is possible to encounter H2S bearing formations. At all times, the first barrier to control H2S emissions will be the drilling fluid, which will have a density high enough to control influx.

Objective

- 1. Provide an immediate and predetermined response plan to any condition when H2S is detected. All H2S detections in excess of 10 parts per million (ppm) concentration are considered an Emergency.
- 2. Prevent any and all accidents, and prevent the uncontrolled release of hydrogen sulfide into the atmosphere.
- 3. Provide proper evacuation procedures to cope with emergencies.
- 4. Provide immediate and adequate medical attention should an injury occur.

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Discussion

Implementation:	This plan with all details is to be fully implemented before drilling to <u>commence</u> .
Emergency response Procedure:	This section outlines the conditions and denotes steps to be taken in the event of an emergency.
Emergency equipment Procedure:	This section outlines the safety and emergency equipment that will be required for the drilling of this well.
Training provisions:	This section outlines the training provisions that must be adhered to prior to drilling.
Drilling emergency call lists:	Included are the telephone numbers of all persons to be contacted should an emergency exist.
Briefing:	This section deals with the briefing of all people involved in the drilling operation.
Public safety:	Public safety personnel will be made aware of any potential evacuation and any additional support needed.
Check lists:	Status check lists and procedural check lists have been included to insure adherence to the plan.
General information:	A general information section has been included to supply support information.

Hydrogen Sulfide Training

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on the well:

- 1. The hazards and characteristics of H2S.
- 2. Proper use and maintenance of personal protective equipment and life support systems.
- 3. H2S detection.
- 4. Proper use of H2S detectors, alarms, warning systems, briefing areas, evacuation procedures and prevailing winds.
- 5. Proper techniques for first aid and rescue procedures.
- 6. Physical effects of hydrogen sulfide on the human body.
- 7. Toxicity of hydrogen sulfide and sulfur dioxide.
- 8. Use of SCBA and supplied air equipment.
- 9. First aid and artificial respiration.
- 10. Emergency rescue.

In addition, supervisory personnel will be trained in the following areas:

- 1. The effects of H2S on metal components. If high tensile strength tubular is to be used, personnel will be trained in their special maintenance requirements.
- 2. Corrective action and shut-in procedures when drilling a well, blowout prevention and well control procedures.
- 3. The contents and requirements of the H2S Drilling Operations Plan.

H2S training refresher must have been taken within one year prior to drilling the well. Specifics on the well to be drilled will be discussed during the pre-spud meeting. H2S and well control (choke) drills will be performed while drilling the well, at least on a weekly basis. This plan shall be available in the well site. All personnel will be required to carry the documentation proving that the H2S training has been taken.

Service company and visiting personnel

- A. Each service company that will be on this well will be notified if the zone contains H2S.
- B. Each service company must provide for the training and equipment of their employees before they arrive at the well site.
- C. Each service company will be expected to attend a well site

Emergency Equipment Requirements

1. <u>Well control equipment</u>

The well shall have hydraulic BOP equipment for the anticipated pressures. Equipment is to be tested on installation and follow Oxy Well Control standard, as well as 43 CFR part 3170 Subpart 3172.

Special control equipment:

- A. Hydraulic BOP equipment with remote control on ground. Remotely operated choke.
- B. Rotating head
- C. Gas buster equipment shall be installed before drilling out of surface pipe.

2. <u>Protective equipment for personnel</u>

- A. Four (4) 30-minute positive pressure air packs (2 at each briefing area) on location.
- B. Adequate fire extinguishers shall be located at strategic locations.
- C. Radio / cell telephone communication will be available at the rig.
 - Rig floor and trailers.
 - Vehicle.

3. <u>Hydrogen sulfide sensors and alarms</u>

- A. H2S sensor with alarms will be located on the rig floor, at the bell nipple, and at the flow line. These monitors will be set to alarm at 10 ppm with strobe light, and audible alarm.
- B. Hand operated detectors with tubes.
- C. H2S monitor tester (to be provided by contract Safety Company.)
- D. There shall be one combustible gas detector on location at all times.

4. <u>Visual Warning Systems</u>

A. One sign located at each location entrance with the following language:

Caution – potential poison gas Hydrogen sulfide No admittance without authorization

Wind sock – *wind streamers*:

- A. One 36" (in length) wind sock located at protection center, at height visible from rig floor.
- B. One 36" (in length) wind sock located at height visible from pit areas.

Condition flags

A. One each condition flag to be displayed to denote conditions.

green – normal conditions yellow – potential danger red – danger, H2S present

B. Condition flag shall be posted at each location sign entrance.

5. <u>Mud Program</u>

The mud program is designed to minimize the risk of having H2S and other formation fluids at surface. Proper mud weight and safe drilling practices will be applied. H2S scavengers will be used to minimize the hazards while drilling. Below is a summary of the drilling program.

Mud inspection devices:

Garrett gas train or hatch tester for inspection of sulfide concentration in mud system.

6. <u>Metallurgy</u>

- A. Drill string, casing, tubing, wellhead, blowout preventers, drilling spools or adapters, kill lines, choke manifold, lines and valves shall be suitable for the H2S service.
- B. All the elastomers, packing, seals and ring gaskets shall be suitable for H2S service.

7. <u>Well Testing</u>

No drill stem test will be performed on this well.

8. <u>Evacuation plan</u>

Evacuation routes should be established prior to well spud for each well and discussed with all rig personnel.

- 9. <u>Designated area</u>
 - A. Parking and visitor area: all vehicles are to be parked at a predetermined safe distance from the wellhead.
 - B. There will be a designated smoking area.
 - C. Two briefing areas on either side of the location at the maximum allowable distance from the well bore so they offset prevailing winds perpendicularly, or at a 45-degree angle if wind direction tends to shift in the area.

Emergency procedures

- A. In the event of any evidence of H2S level above 10 ppm, take the following steps:
 - 1. The Driller will pick up off bottom, shut down the pumps, slow down the pipe rotation.
 - 2. Secure and don escape breathing equipment, report to the upwind designated safe briefing / muster area.
 - 3. All personnel on location will be accounted for and emergency search should begin for any missing, the Buddy System will be implemented.
 - 4. Order non-essential personnel to leave the well site, order all essential personnel out of the danger zone and upwind to the nearest designated safe briefing / muster area.
 - 5. Entrance to the location will be secured to a higher level than our usual "Meet and Greet" requirement, and the proper condition flag will be displayed at the entrance to the location.
 - 6. Take steps to determine if the H2S level can be corrected or suppressed and, if so, proceed as required.
- B. If uncontrollable conditions occur:
 - 1. Take steps to protect and/or remove any public in the down-wind area from the rig – partial evacuation and isolation. Notify necessary public safety personnel and appropriate regulatory entities (i.e. BLM) of the situation.

- 2. Remove all personnel to the nearest upwind designated safe briefing / muster area or off location.
- 3. Notify public safety personnel of safe briefing / muster area.
- 4. An assigned crew member will blockade the entrance to the location. No unauthorized personnel will be allowed entry to the location.
- 5. Proceed with best plan (at the time) to regain control of the well. Maintain tight security and safety procedures.
- C. Responsibility:
 - 1. Designated personnel.
 - a. Shall be responsible for the total implementation of this plan.
 - b. Shall be in complete command during any emergency.
 - c. Shall designate a back-up.

All personnel:	1. 2. 3. 4.	On alarm, don escape unit and report to the nearest upwind designated safe briefing / muster area upw Check status of personnel (buddy system). Secure breathing equipment. Await orders from supervisor.
Drill site manager:	1.	Don escape unit if necessary and report to nearest upwind designated safe briefing / muster area.
	2.	Coordinate preparations of individuals to return to point of release with tool pusher and driller (using the buddy system).
	3.	Determine H2S concentrations.
	4.	Assess situation and take control measures.
Tool pusher:	1.	Don escape unit Report to up nearest upwind designated safe briefing / muster area.
	2.	Coordinate preparation of individuals to return to point of release with tool pusher drill site manager
	_	(using the buddy system).
	3.	Determine H2S concentration.
	4.	Assess situation and take control measures.
Driller:	1.	Don escape unit, shut down pumps, continue

		rotating DP.
	2.	Check monitor for point of release.
	3.	Report to nearest upwind designated safe briefing / muster area.
	4.	Check status of personnel (in an attempt to rescue, use the buddy system).
	5.	Assigns least essential person to notify Drill Site Manager and tool pusher by quickest means in case of their absence.
	6.	Assumes the responsibilities of the Drill Site Manager and tool pusher until they arrive should they be absent.
Derrick man Floor man #1 Floor man #2	1.	Will remain in briefing / muster area until instructed by supervisor.
Mud engineer:	1.	Report to nearest upwind designated safe briefing / muster area.
	2.	When instructed, begin check of mud for ph and H2S level. (Garett gas train.)
Safety personnel:	1.	Mask up and check status of all personnel and secure operations as instructed by drill site manager.

<u>Taking a kick</u>

When taking a kick during an H2S emergency, all personnel will follow standard Well control procedures after reporting to briefing area and masking up.

Open-hole logging

All unnecessary personnel off floor. Drill Site Manager and safety personnel should monitor condition, advise status and determine need for use of air equipment.

Running casing or plugging

Following the same "tripping" procedure as above. Drill Site Manager and safety personnel should determine if all personnel have access to protective equipment.

Ignition procedures

The decision to ignite the well is the responsibility of the operator (Oxy Drilling Management). The decision should be made only as a last resort and in a situation where it is clear that:

- 1. Human life and property are endangered.
- 2. There is no hope controlling the blowout under the prevailing conditions at the well.

Instructions for igniting the well

- 1. Two people are required for the actual igniting operation. They must wear self-contained breathing units and have a safety rope attached. One man (tool pusher or safety engineer) will check the atmosphere for explosive gases with the gas monitor. The other man is responsible for igniting the well.
- 2. Primary method to ignite: 25 mm flare gun with range of approximately 500 feet.
- 3. Ignite upwind and do not approach any closer than is warranted.
- 4. Select the ignition site best for protection, and which offers an easy escape route.
- 5. Before firing, check for presence of combustible gas.
- 6. After lighting, continue emergency action and procedure as before.
- 7. All unassigned personnel will remain in briefing area until instructed by supervisor or directed by the Drill Site Manager.

<u>Remember</u>: After well is ignited, burning hydrogen sulfide will convert to sulfur dioxide, which is also highly toxic. **<u>Do not assume the area is safe after the well is ignited.</u>**

Status check list

Note: All items on this list must be completed before drilling to production casing point.

- 1. H2S sign at location entrance.
- 2. Two (2) wind socks located as required.
- 3. Four (4) 30-minute positive pressure air packs (2 at each Briefing area) on location for all rig personnel and mud loggers.
- 4. Air packs inspected and ready for use.
- 5. Cascade system and hose line hook-up as needed.
- 6. Cascade system for refilling air bottles as needed.
- 7. Condition flag on location and ready for use.
- 8. H2S detection system hooked up and tested.
- 9. H2S alarm system hooked up and tested.
- 10. Hand operated H2S detector with tubes on location.
- 11. 1-100' length of nylon rope on location.
- 12. All rig crew and supervisors trained as required.
- 13. All outside service contractors advised of potential H2S hazard on well.
- 14. No smoking sign posted and a designated smoking area identified.
- 15. Calibration of all H2S equipment shall be noted on the IADC report.

Checked by: _____ Date:

Procedural check list during H2S events

Perform each tour:

- 1. Check fire extinguishers to see that they have the proper charge.
- 2. Check breathing equipment to ensure that it in proper working order.
- 3. Make sure all the H2S detection system is operative.

Perform each week:

- 1. Check each piece of breathing equipment to make sure that demand or forced air regulator is working. This requires that the bottle be opened and the mask assembly be put on tight enough so that when you inhale, you receive air or feel air flow.
- 2. BOP skills (well control drills).
- 3. Check supply pressure on BOP accumulator stand by source.
- 4. Check breathing equipment mask assembly to see that straps are loosened and turned back, ready to put on.
- 5. Check pressure on breathing equipment air bottles to make sure they are charged to full volume. (Air quality checked for proper air grade "D" before bringing to location)
- 6. Confirm pressure on all supply air bottles.
- 7. Perform breathing equipment drills with on-site personnel.
- 8. Check the following supplies for availability.
 - A. Emergency telephone list.
 - B. Hand operated H2S detectors and tubes.

General evacuation plan

- 1. When the company approved supervisor (Drill Site Manager, consultant, rig pusher, or driller) determines the H2S gas cannot be limited to the well location and the public will be involved, he will activate the evacuation plan.
- 2. Drill Site Manager or designee will notify local government agency that a hazardous condition exists and evacuation needs to be implemented.
- 3. Company or contractor safety personnel that have been trained in the use of H2S detection equipment and self-contained breathing equipment will monitor H2S concentrations, wind directions, and area of exposure. They will delineate the outer perimeter of the hazardous gas area. Extension to the evacuation area will be determined from information gathered.
- 4. Law enforcement personnel (state police, police dept., fire dept., and sheriff's dept.) Will be called to aid in setting up and maintaining road blocks. Also, they will aid in evacuation of the public if necessary.
- 5. After the discharge of gas has been controlled, company safety personnel will determine when the area is safe for re-entry.

<u>Important:</u> Law enforcement personnel will not be asked to come into a contaminated area. Their assistance will be limited to uncontaminated areas. Constant radio contact will be maintained with them.

Emergency actions

Well blowout – if emergency

- 1. Evacuate all personnel to "Safe Briefing / Muster Areas" or off location if needed.
- 2. If sour gas evacuate rig personnel.
- 3. If sour gas evacuate public within 3000 ft radius of exposure.
- 4. Don SCBA and shut well in if possible using the buddy system.
- 5. Notify Drilling Superintendent and call 911 for emergency help (fire dept and ambulance) if needed.
- 6. Implement the Blowout Contingency Plan, and Drilling Emergency Action Plan.
- 6. Give first aid as needed.

Person down location/facility

- 1. If immediately possible, contact 911. Give location and wait for confirmation.
- 2. Don SCBA and perform rescue operation using buddy system.

Toxic effects of hydrogen sulfide

Hydrogen sulfide is extremely toxic. The acceptable ceiling concentration for eight-hour exposure is 10 ppm, which is .001% by volume. Hydrogen sulfide is heavier than air (specific gravity -1.192) and colorless. It forms an explosive mixture with air between 4.3 and 46.0 percent by volume. Hydrogen sulfide is almost as toxic as hydrogen cyanide and is between five and six times more toxic than carbon monoxide. Toxicity data for hydrogen sulfide and various other gases are compared in table i. Physical effects at various hydrogen sulfide exposure levels are shown in table ii.

Common name	Chemical formula	Specific gravity	Threshold limit	Hazardous limit	Lethal concentration (3)
		(sc=1)	(1)	(2)	
Hydrogen Cyanide	Hcn	0.94	10 ppm	150 ppm/hr	300 ppm
Hydrogen Sulfide	H2S	1.18	10 ppm	250 ppm/hr	600 ppm
Sulfur Dioxide	So2	2.21	5 ppm	-	1000 ppm
Chlorine	C12	2.45	1 ppm	4 ppm/hr	1000 ppm
Carbon Monoxide	Co	0.97	50 ppm	400 ppm/hr	1000 ppm
Carbon Dioxide	Co2	1.52	5000 ppm	5%	10%
Methane	Ch4	0.55	90,000 ppm	Combustib	le above 5% in air

Table i Toxicity of various gases

1) threshold limit – concentration at which it is believed that all workers may be repeatedly exposed day after day without adverse effects.

- 2) hazardous limit concentration that will cause death with short-term exposure.
- 3) lethal concentration concentration that will cause death with short-term exposure.

Toxic effects of hydrogen sulfide

Table ii Physical effects of hydrogen sulfide

		Concentration	Physical effects
Percent (%)	Ppm	Grains	
	-	100 std. Ft3*	
0.001	<10	00.65	Obvious and unpleasant odor.

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0.002	10	01.30	Safe for 8 hours of exposure.
0.010	100	06.48	Kill smell in $3 - 15$ minutes. May sting eyes and throat.
0.020	200	12.96	Kills smell shortly; stings eyes and throat.
0.050	500	32.96	Dizziness; breathing ceases in a few minutes; needs prompt artificial respiration.
0.070	700	45.36	Unconscious quickly; death will result if not rescued promptly.
0.100	1000	64.30	Unconscious at once; followed by death within minutes.

*at 15.00 psia and 60'f.

Use of self-contained breathing equipment (SCBA)

- 1. Written procedures shall be prepared covering safe use of SCBA's in dangerous atmosphere, which might be encountered in normal operations or in emergencies. Personnel shall be familiar with these procedures and the available SCBA.
- 2 SCBA's shall be inspected frequently at random to insure that they are properly used, cleaned, and maintained.
- 3. Anyone who may use the SCBA's shall be trained in how to insure proper facepiece to face seal. They shall wear SCBA's in normal air and then wear them in a test atmosphere. (note: such items as facial hair {beard or sideburns} and eyeglasses will not allow proper seal.) Anyone that may be reasonably expected to wear SCBA's should have these items removed before entering a toxic atmosphere. A special mask must be obtained for anyone who must wear eyeglasses or contact lenses.
- 4. Maintenance and care of SCBA's:
 - a. A program for maintenance and care of SCBA's shall include the following:
 - 1. Inspection for defects, including leak checks.
 - 2. Cleaning and disinfecting.
 - 3. Repair.
 - 4. Storage.
 - b. Inspection, self-contained breathing apparatus for emergency use shall be inspected monthly.
 - 1. Fully charged cylinders.
 - 2. Regulator and warning device operation.
 - 3. Condition of face piece and connections.
 - 4. Rubber parts shall be maintained to keep them pliable and prevent deterioration.
 - c. Routinely used SCBA's shall be collected, cleaned and disinfected as frequently as necessary to insure proper protection is provided.
- 5. Persons assigned tasks that requires use of self-contained breathing equipment shall be certified physically fit (medically cleared) for breathing equipment usage at least annually.
- 6. SCBA's should be worn when:
 - A. Any employee works near the top or on top of any tank unless test reveals less than 10 ppm of H2S.

- B. When breaking out any line where H2S can reasonably be expected.
- C. When sampling air in areas to determine if toxic concentrations of H2S exists.
- D. When working in areas where over 10 ppm H2S has been detected.
- E. At any time there is a doubt as to the H2S level in the area to be entered.

Rescue First aid for H2S poisoning

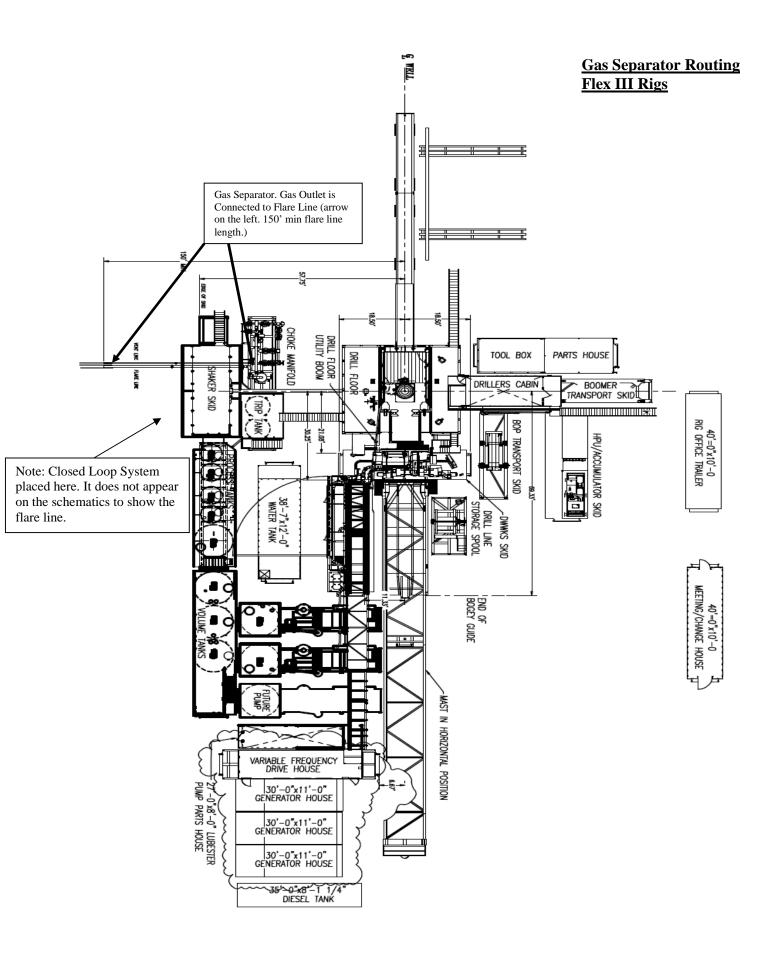
Do not panic!

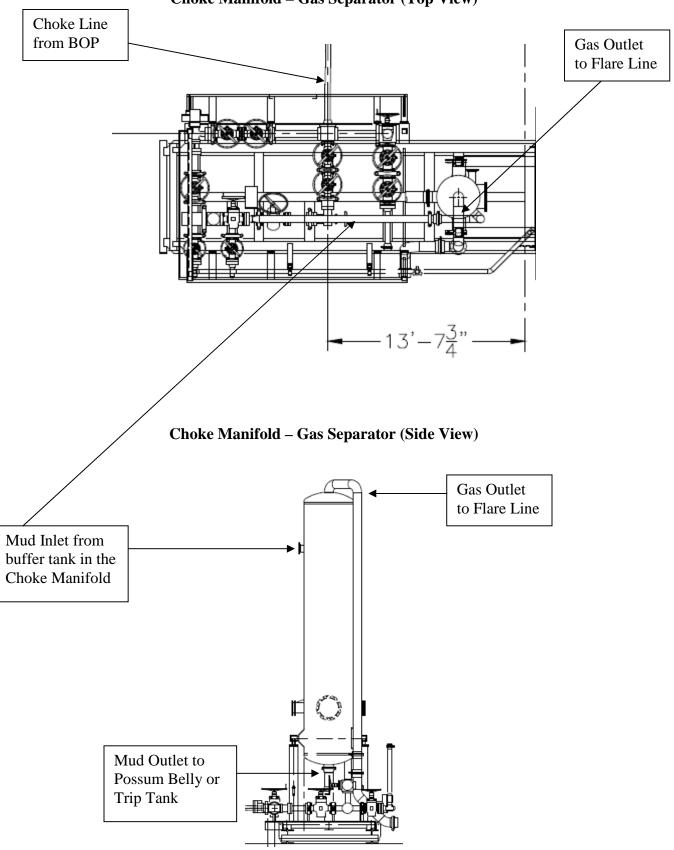
Remain calm – think!

- 1. Don SCBA breathing equipment.
- 2. Remove victim(s) utilizing buddy system to fresh air as quickly as possible. (go up-wind from source or at right angle to the wind. Not down wind.)
- 3. Briefly apply chest pressure arm lift method of artificial respiration to clean the victim's lungs and to avoid inhaling any toxic gas directly from the victim's lungs.
- 4. Provide for prompt transportation to the hospital, and continue giving artificial respiration if needed.
- 5. Hospital(s) or medical facilities need to be informed, before-hand, of the possibility of H2S gas poisoning no matter how remote the possibility is.
- 6. Notify emergency room personnel that the victim(s) has been exposed to H2S gas.

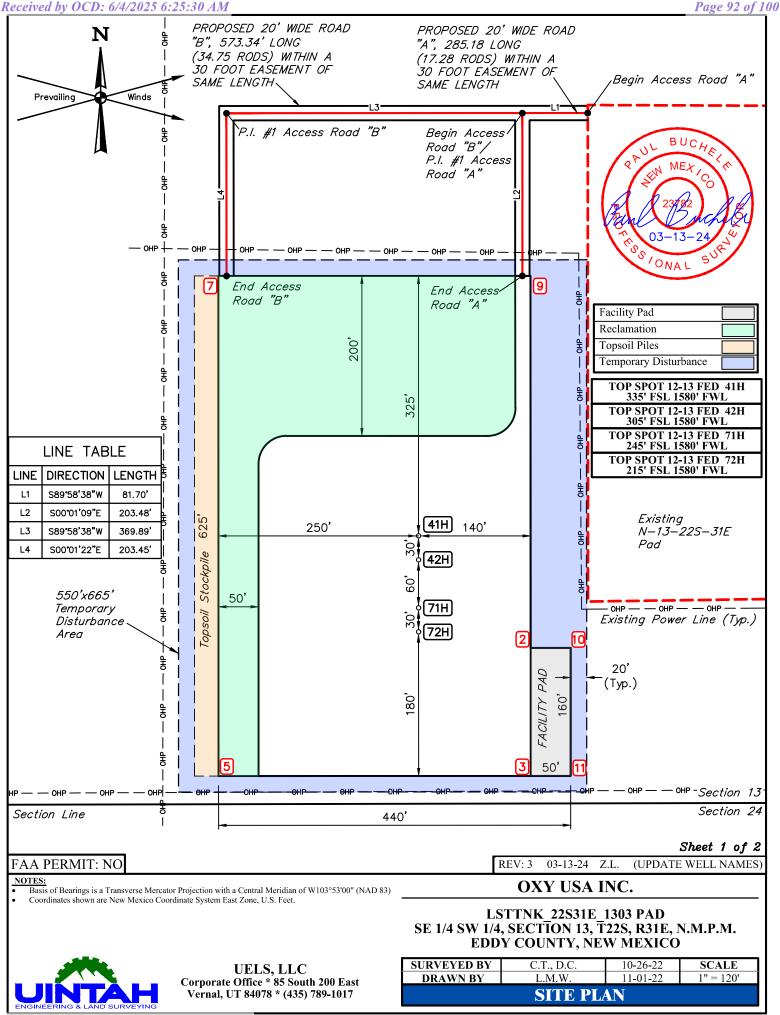
Besides basic first aid, everyone on location should have a good working knowledge of artificial respiration.

Revised CM 6/27/2012





Choke Manifold – Gas Separator (Top View)

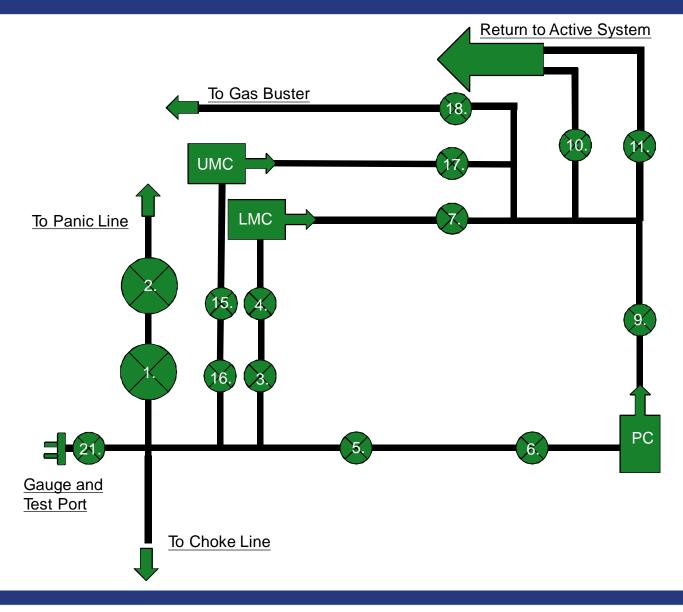


Released to Imaging: 7/17/2025 4:31:22 PM

Received by OCD: 6/4/2025 6:25:30 AM

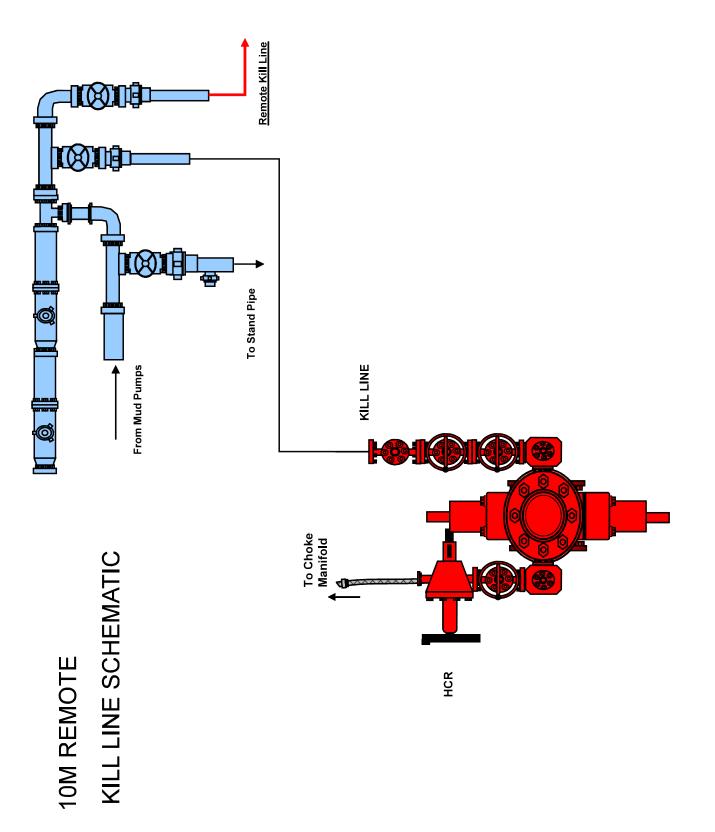
41H - EL: 3559.9'	42H - EL: 3558.8'	71H - EL: 3559.6'	OPUL DOCHEL
NAD 83 LATITUDE = 32°23'06.61" (32.385170°)	NAD 83 LATITUDE = 32°23'06.31" (32.385087°)	NAD 83 LATITUDE = 32°23'05.72" (32.384922°)	A SEN MEX CO M
LONGITUDE = -103°44'05.83" (-103.734953°) NAD 27	LONGITUDE = -103°44'05.83" (-103.734953°) NAD 27	LONGITUDE = -103°44'05.83" (-103.734953°) NAD 27	A 23482 8 d
LATITUDE = 32°23'06.17" (32.385047°) LONGITUDE = -103°44'04.07" (-103.734464°)	LATITUDE = 32°23'05.87" (32.384965°) LONGITUDE = -103°44'04.07" (-103.734464°)	LATITUDE = 32°23'05.28" (32.384800°) LONGITUDE = -103°44'04.07" (-103.734464°)	Fan Ducht
STATE PLANE NAD 83 (N.M. EAST) N: 504372.85' E: 726050.09'	STATE PLANE NAD 83 (N.M. EAST) N: 504342.86' E: 726050.22'	STATE PLANE NAD 83 (N.M. EAST) N: 504282.87' E: 726050.49'	10-23-23
STATE PLANE NAD 27 (N.M. EAST) N: 504312.43' E: 684867.74'	STATE PLANE NAD 27 (N.M. EAST) N: 504282.43' E: 684867.88'	STATE PLANE NAD 27 (N.M. EAST) N: 504222.45' E: 684868.15'	0'SIONAL SUP
72H - EL: 3560.7' NAD 83	2 - EL: 3562.8' NAD 83	3 - EL: 3561.2' NAD 83	5 - EL: 3556.8' NAD 83
LATITUDE = 32°23'05.42" (32.384840°)	LATITUDE = 32°23'05.22" (32.384785°)	LATITUDE = 32°23'03.64" (32.384345°)	LATITUDE = 32°23'03.65" (32.384346°)
LONGITUDE = -103°44'05.83" (-103.734953°) NAD 27	LONGITUDE = -103°44'04.20" (-103.734500°) NAD 27	LONGITUDE = -103°44'04.20" (-103.734501°) NAD 27	LONGITUDE = -103°44'08.75" (-103.735764 NAD 27
LATITUDE = 32°23'04.98" (32.384717°) LONGITUDE = -103°44'04.07" (-103.734465°)	LATITUDE = 32°23'04.78" (32.384662°) LONGITUDE = -103°44'02.44" (-103.734011°)	LATITUDE = 32°23'03.20" (32.384222°) LONGITUDE = -103°44'02.44" (-103.734012°)	LATITUDE = 32°23'03.20" (32.384223°) LONGITUDE = -103°44'06.99" (-103.735275
STATE PLANE NAD 83 (N.M. EAST) N: 504252.87' E: 726050.63'	STATE PLANE NAD 83 (N.M. EAST) N: 504233.51' E: 726190.69'	STATE PLANE NAD 83 (N.M. EAST) N: 504073.55' E: 726191.42'	STATE PLANE NAD 83 (N.M. EAST) N: 504071.77' E: 725801.50'
STATE PLANE NAD 27 (N.M. EAST) N: 504192.45' E: 684868.28'	STATE PLANE NAD 27 (N.M. EAST) N: 504173.09' E: 685008.34'	STATE PLANE NAD 27 (N.M. EAST) N: 504013.13' E: 685009.07'	STATE PLANE NAD 27 (N.M. EAST) N: 504011.36' E: 684619.15'
7 - EL: 3560.5'	9 - EL: 3567.6'	10 - EL: 3561.6'	11 - EL: 3561.2'
NAD 83 LATITUDE = 32°23'09.83" (32.386064°)	NAD 83 LATITUDE = 32°23'09.82" (32.386062°)	NAD 83 LATITUDE = 32°23'05.22" (32.384784°)	NAD 83 LATITUDE = 32°23'03.64" (32.384345°)
LONGITUDE = -103°44'08.74" (-103.735762°) NAD 27	LONGITUDE = -103°44'04.19" (-103.734498°) NAD 27	LONGITUDE = -103°44'03.62" (-103.734338°) NAD 27	LONGITUDE = -103°44'03.62" (-103.734339 NAD 27
LATITUDE = 32°23'09.39" (32.385941°) LONGITUDE = -103°44'06.98" (-103.735273°)	LATITUDE = 32°23'09.38" (32.385940°) LONGITUDE = -103°44'02.43" (-103.734010°)	LATITUDE = 32°23'04.78" (32.384662°) LONGITUDE = -103°44'01.86" (-103.733849°)	LATITUDE = 32°23'03.20" (32.384222°) LONGITUDE = -103°44'01.86" (-103.733850
STATE PLANE NAD 83 (N.M. EAST)			
N: 504696.65' E: 725798.66' STATE PLANE NAD 27 (N.M. EAST) N: 504636.22' E: 684616.32'	N: 504698.42' E: 726188.58' STATE PLANE NAD 27 (N.M. EAST) N: 504637.99' E: 685006.24'	N: 504233.74' E: 726240.68' STATE PLANE NAD 27 (N.M. EAST) N: 504173.32' E: 685058.33'	N: 504073.77' E: 726241.41' STATE PLANE NAD 27 (N.M. EAST) N: 504013.36' E: 685059.05'
BEGIN ACCESS ROAD "A" - EL: 3568.8'	P.I. ACCESS ROAD "A"/BEGIN ROAD "B"	END ACCESS ROAD "A" - EL: 3566.9'	P.I. #1 ACCESS ROAD "B"
NAD 83 LATITUDE = 32°23'11.84" (32.386621°)	NAD 83 LATITUDE = 32°23'11.84" (32.386622°)	NAD 83 LATITUDE = 32°23'09.82" (32.386062°)	NAD 83 LATITUDE = 32°23'11.84" (32.386623°)
LONGITUDE = -103°44'03.36" (-103.734266°) NAD 27	LONGITUDE = -103°44'04.31" (-103.734530°) NAD 27	LONGITUDE = -103°44′04.31" (-103.734531°) NAD 27	LONGITUDE = $-103^{\circ}44'08.62"$ (-103.735728 NAD 27
LATITUDE = 32°23'11.40" (32.386499°)	LATITUDE = 32°23'11.40" (32.386499°)	LATITUDE = 32°23'09.38" (32.385940°)	LATITUDE = 32°23'11.40" (32.386500°)
LONGITUDE = -103°44′01.60" (-103.733777°) STATE PLANE NAD 83 (N.M. EAST)	LONGITUDE = -103°44'02.55" (-103.734041°) STATE PLANE NAD 83 (N.M. EAST)	LONGITUDE = -103°44'02.55" (-103.734042°) STATE PLANE NAD 83 (N.M. EAST)	LONGITUDE = -103°44'06.86" (-103.735239 STATE PLANE NAD 83 (N.M. EAST)
N: 504902.19' E: 726259.27' STATE PLANE NAD 27 (N.M. EAST) N: 504841.75' E: 685076.94'	N: 504901.81' E: 726177.58' STATE PLANE NAD 27 (N.M. EAST) N: 504841.38' E: 684995.25'	N: 504698.38' E: 726178.51' STATE PLANE NAD 27 (N.M. EAST) N: 504637.94' E: 684996.17'	N: 504900.11' E: 725807.76' STATE PLANE NAD 27 (N.M. EAST) N: 504839.67' E: 684625.44'
	N. 50101130 E. 00193225	11.001037131 2.001330.17	1. 50 1055.07 2. 00 1025.11
END ACCESS ROAD "B" - EL: 3559.9' NAD 83			
LATITUDE = 32°23'09.83" (32.386064°) LONGITUDE = -103°44'08.62" (-103.735729°)			
NAD 27 LATITUDE = 32°23'09.39" (32.385941°)			
LONGITUDE = -103°44'06.86" (-103.735240°) STATE PLANE NAD 83 (N.M. EAST)			
N: 504696.70' E: 725808.70' STATE PLANE NAD 27 (N.M. EAST)			
N: 504636.26' E: 684626.37'			
TES:			Sheet 2
	ction with a Central Meridian of W103°53'00" (NAD 83) System East Zone, U.S. Feet.		USA INC.
		SE 1/4 SW 1/4, SECT IO	S31E_1303
	UELS, LLC	SURVEYED BY C.T., D	.C. 10-26-22 SCAL
— \ \ —		DRAWN BY D.J.S	. 10-23-23 N/A
	rporate Office * 85 South 200 East ernal, UT 84078 * (435) 789-1017		E PLAN

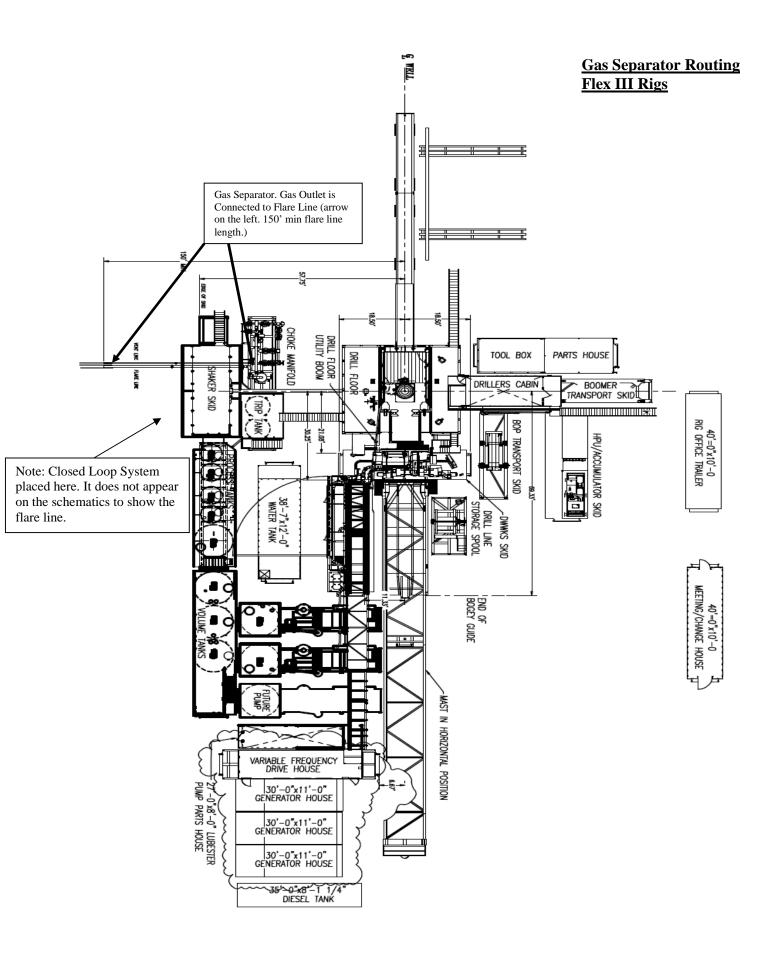
10M Choke Panel

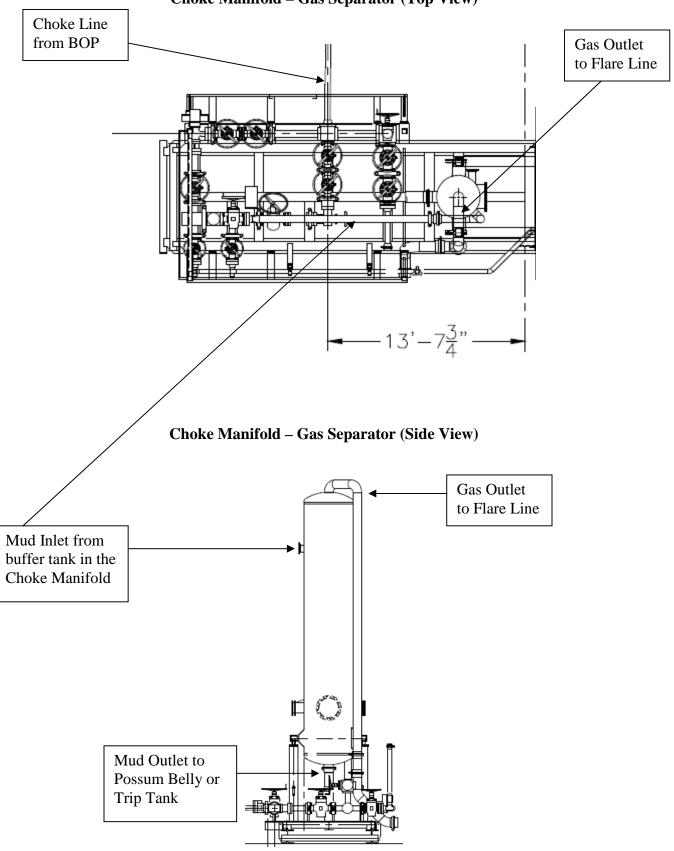


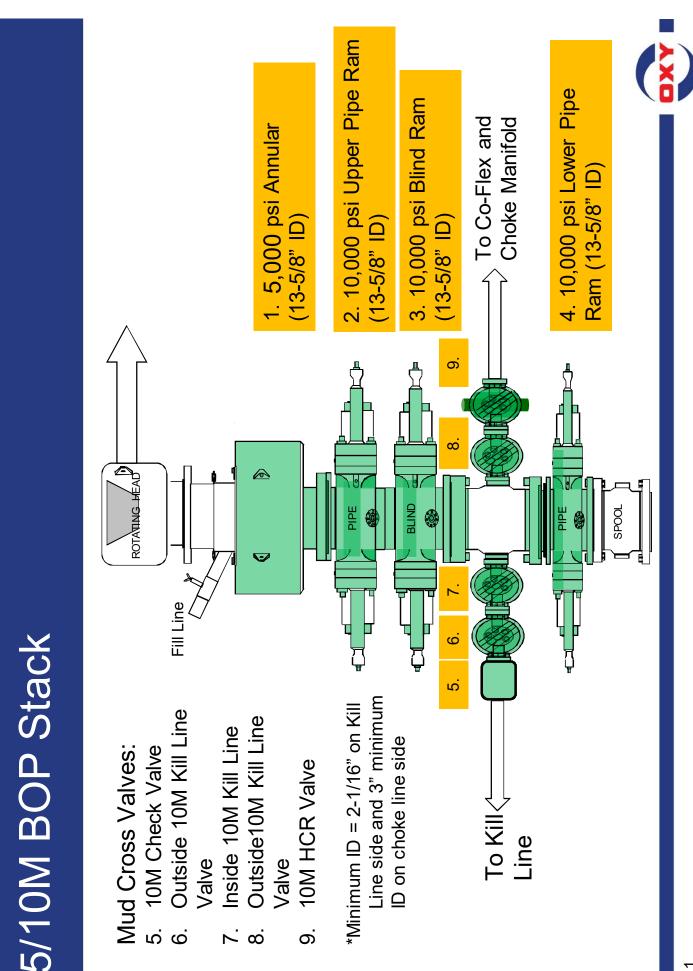
- 1. Choke Manifold Valve
- 2. Choke Manifold Valve
- 3. Choke Manifold Valve
- 4. Choke Manifold Valve
- 5. Choke Manifold Valve
- 6. Choke Manifold Valve
- 7. Choke Manifold Valve
- 8. PC Power Choke
- 9. Choke Manifold Valve
- 10. Choke Manifold Valve
- 11. Choke Manifold Valve
- 12. LMC Lower Manual Choke
- 13. UMC Upper manual choke
- 15. Choke Manifold Valve
- 16. Choke Manifold Valve
- 17. Choke Manifold Valve
- 18. Choke Manifold Valve
- 21. Vertical Choke Manifold Valve
- *All Valves 3" minimum

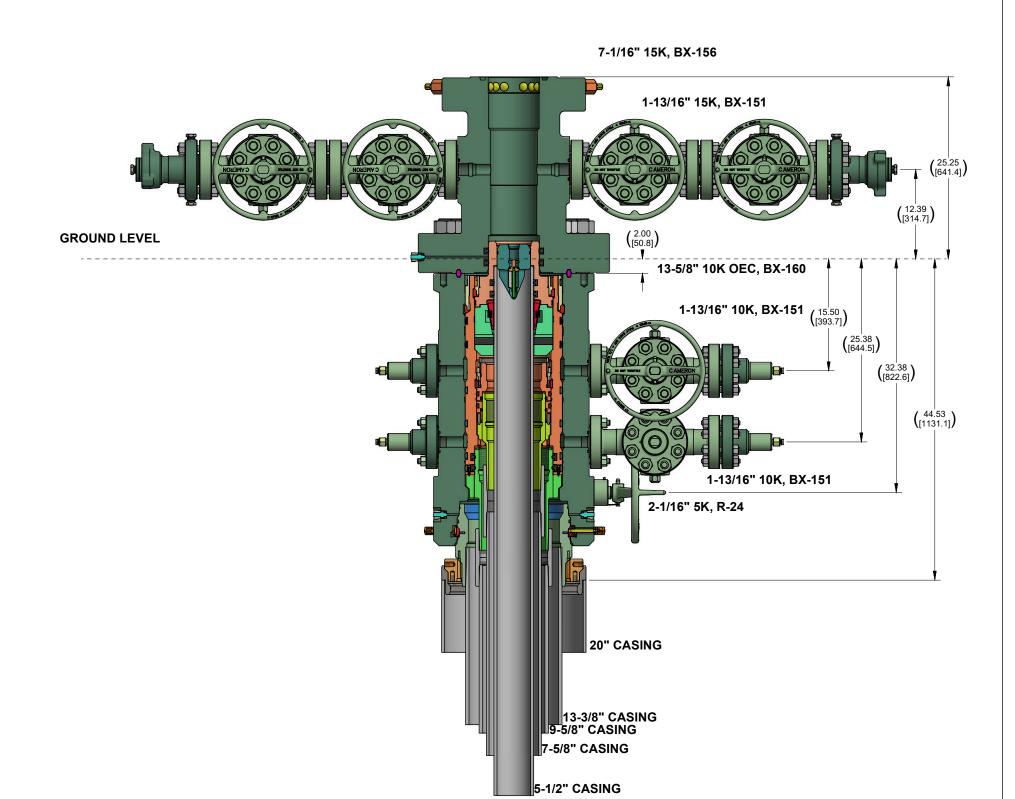












	CONFIDENTIAL					
SURFACE TREATMENT DO NOT SCA			6	CAMERON	SURFACE	
	DRAWN BY: A. SKLENKA	26 Apr 22	Y	A Schlumberger Company	SYSTEMS	
MATERIAL & HEAT TREAT	CHECKED BY: A. SKLENKA	26 Apr 22	OXY ADAPT NST 10K 3 STAGE WELLHEAD			
	APPROVED BY: A. SKLENKA	26 Apr 22				
	968.4 LBS INITIAL USE B/M: 3614.4 KG T# 7836394		SHEET 1 OF 1	LO-096232-6	2 REV: 01	

Sante Fe Main Office Phone: (505) 476-3441

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

CONDITIONS

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	470539
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
melissaguidry	Cement is required to circulate on both surface and intermediate1 strings of casing.	6/4/2025
melissaguidry	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	6/4/2025
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	7/17/2025
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	7/17/2025
ward.rikala	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.	7/17/202
ward.rikala	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.	7/17/202
ward.rikala	Operator must comply with all of the R-111-Q requirements.	7/17/202

Action 470539