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Fc m 3160-3	,		ED STATES T DF THE INTEI		OK	1	FORM APPROVED
(August 1999) ¹			AND MANAGEN		OCD Artesia		OMB NO. 1004-0136 Expires: November 30, 2000
		ARTESIA				•5.	Lease Serial No.
			MIT TO DRIL				NMNM0417696-S NMNM041750
1a. Type of Work	X DF	ULL	REENT	ER	R-111-POTAS	H ⁶	If Indian, Allotee or Tribe Name
1b. Type of Well	X Oil Well	Gas Well	Other	X Single Zone	Multiple Zon		Unit or CA Agreement Name and No.
 Name of Operato OXY USA Inc. 	or			1669	6		Lease Name and Well No. 34 77
3a Address				3b. Phone	No. (include area co		Lost Tank 10 Federal #5 API Well No
P.O. Box 5025 4. Location of Well	50 Midland,	<u>TX 79710-(</u>	0250	4	32-685-5717		30-015. 37924 Jar
At surface Z	DOFSL ZE	SO FEL	SESE (F) Sec 3	UNORTH		Field and Pool, or Exploratory Lost Tank Delaware, West Sec., T, R, M., or Blk. and Survey or A
At proposed prod	zone 1536	FNL 33	DFEL SE	ENE(H) S	ec BOCA	RIVIS	Sec 3-S 10-BH T22S R31E
14 Distance in miles							County or Parish 13. State
		<u>20 miles no</u>	ortheast from			Ed	
15 Distance from pr location to neare				16.No of Acr	es in lease	17 Spacir	ng Unit dedicated to this well
property or lease		-	330	u	,0		40
18 Distance from pr	roposed location* frilling, completed,			19. Proposed I	Depth 21	20 BLM/	/BIA Bond No. on file
applied for, on the	his lease, ft	74	ູ້	BC BC BC M	8300'V	ļ	ES0136
21 51		DT CL -t-			<u> </u>		
21. Elevations (Show	whether DF, KDB,	3510.1	•	22. Approxim	ate date work will sta 8/09	rt*	23. Estimated duration 45
							45
The following, comp		-		1	No. 1, shall be attache		
 Well plat certifie A Drilling Plan A Surface Use P 		irveyor. is on National Fo	ments of Onshore C	Dil and Gas Order 1 4 Bon Item 5. Ope 6 Suc	No. 1, shall be attache d to cover the operati 20 above). rator certification. h other site specific in	ons unless	orm: covered by an existing bond on file (see and/or plans as may be required by the
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District III 1000 Rio B District IV	and Aver trazos Ro	nue, Arte I., Aztec,	NM 88240 esia, NM 882 , NM 87410 nta Fe, NM 8	10	ergy, Mi	State of New Mexico inerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505						Form C-102 Revised October 12, 2005 Submit to Appropriate District Office State Lease- 4 Copies Fee Lease- 3 Copies		
				W				ACRE	AGE DEDIC	CATION PLAT	<u> </u>			
30-0	ΑΡΙ 	Number	er 7925	4		Pool Co	de 52		صا	stTaul	Pool Name	ware	(Je	st
Proj	perty Co	te						roperty	Name					ell Number
						1			10 FED.					5
00	RID No.						0	perator I	tor Name Elevation					
ماما ا	96						OXY	USA	SA INC. 3510.1'					<i>510.1</i> '
							Sur	face	Location					
UL or lot no.	Section	To	ownship	1	۴	lange		Lot Idn	Feet from the	North/South line	Feet from the	East/Wes	t line	County
P	3	22	SOUTH	3	1 EAST,	N. M	(. Р. М.		200'	SOUTH	250'	EA	ST	EDDY
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UL or lot no.	Section	To	ownship]	R	lange		Lot Idn	Feet from the	North/South line	Feet from the	East/Wes	t line	County
H	10	22	SOUTH	3	1 EAST,	N.M	(. Р. М .		1536'	NORTH	330'	EA	ST	EDDY
Dedicated	Acres	Joint	or Infill	Conso	lidation Code	e	Order No.			J				L
40)	Ļ	(es											

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



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United States Department of the Interior Bureau of Land Management Carlsbad Field Office 620 East Greene Street Carlsbad, New Mexico 88220

Attention: Linda Denniston

RE: Lost Tank 10 Federal #5 Eddy County, New Mexico

STATEMENT ACCEPTING RESPONSIBILITY FOR OPERATIONS

OPERATOR NAME:	OXY USA Inc.
ADDRESS:	P.O. Box 4294
	Houston, Texas 77210-4294

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

LEASE NO.: LEGAL DESCRIPTION: Surface Location: NMNM 0417696

2,00' FSL & 250' FEL (SESE) Section 3-T22S-R31E NMNM 0417506

LEASE NO.: LEGAL DESCRIPTION: Bottom Hole Location:

1,536' FNL & 330' FEL (SENE) Section 10-T22S-R31E Eddy County, New Mexico

FORMATIONS:

None

BOND COVERAGE:

BLM BOND FILE NO.:

ES 0136

Nationwide

OXY USA Inc.

1.2.00

Donna G. Havins

Land Negotiator

May 14, 2009

AUTHORIZED SIGNATURE:

TITLE:

DATE: cc: David Stewart LOCATION VERIFICATION MAP



SCALE: 1'' = 2000'

SEC. <u>3</u> TWP. <u>22–S</u> RGE. <u>31–E</u> SURVEY <u>N.M.P.M.</u> COUNTY <u>EDDY</u> DESCRIPTION <u>200' FSL & 250' FEL</u> ELEVATION <u>3510.1'</u> OPERATOR <u>OXY USA INC.</u> LEASE LOST TANK 10 FED. <u>#5</u> U.S.G.S. TOPOGRAPHIC MAP LIVINGSTON RIDGE, N.M.

DIRECTIONS:

BEGINNING AT THE INTERSECTION OF N.M. STATE HWY. #128 AND EDDY COUNTY ROAD #802 (WIPP ROAD), GO NORTH ON EDDY COUNTY ROAD #802 FOR 8.6 MILES, TURN RIGHT ON LEASE ROAD AND GO EAST FOR 0.2 MILES, GO SOUTHEAST FOR 0.2 MILES, GO SOUTH FOR 0.2 MILES, TURN LEFT ON PROPOSED ROAD AND GO SOUTHEAST FOR 0.2 MILES TO LOCATION.

CONTOUR INTERVAL: 10'



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FLOWLINES DETAILS	то	FLUID	LINE SIZE	LINE LENTH	MATERIAL	PRESSURE	BURIED
FROM		1	1	1	1	RATING	1
LOST TANK 3-14	LOST TANK 3-5	PRODUCTION	4"SDR7	0 828	HDPE	LOW	NO
LOST TANK 3-16	LOST TANK 3-6	PRODUCTION	4"SDR7	0.892	HDPE	LOW	NO
LOST TANK 3-18	LOST TANK 3-7	PRODUCTION	4"SDR7	0.892	HDPE	LOW	NO
LOST TANK 3-20	LOST TANK 3-8	PRODUCTION	4"SDR7	0 560	HDPE	LOW	NO
LOST TANK 3-21	LOST TANK 3-9	PRODUCTION	4"SDR7	0 966	HDPE	LOW	NO
LOST TANK 3-22	LOST TANK 3-10	PRODUCTION	4"SDR7	0 563	HDPE	LOW	NO
LOST TANK 3-24	LOST TANK 3-11	PRODUCTION	4"SDR7	0 863	HDPE	LOW	NO
LOST TANK 10-1	LOST TANK 3-12	PRODUCTION	4"SDR7	0 885	HDPE	LOW	NO
LOST TANK 10-2	LOST TANK 3-13	PRODUCTION	4"SDR7	0 885	HDPE	LOW	NO
LOST TANK 10-3	LOST TANK 3-14	PRODUCTION	4"SDR7	0 885	HDPE	LOW	NO
LOST TANK 10-4	LOST TANK 3-15	PRODUCTION	4"SDR7	0 863	HOPE	LOW	NO
LOST TANK 10-5	LOST TANK 3-16	PRODUCTION	4"SDR7	0.863	HDPE	LOW	NO
LOST TANK 11-1	LOST TANK 3-17	PRODUCTION	4"SDR7	0.863	HDPE	LOW	NO
LOST TANK 3-5	LOST TANK 3-25	WATER		0.150	HDPE	LOW	YES
LOST TANK 3-5		GAS		2.181	HDPE	LOW	YES

)



<u>DRILLING PROGRAM</u>	1	
Operator Name	OXY USA Inc.	16696
Lease Name/Number	Lost Tank 10 Federal #5	Federal Lease No. NMNM0417506
Pool Name/Number:	Lost Tank Delaware, West	96582
Surface Location:	200 FSL 250 FEL SESE (P)	Sec 3 T22S R31E NMNM0417696
Bottom Hole Location:	1536 FNL 330 FEL SENE (H)	Sec 10 T22S R31E
Proposed TD:	8300' TVD 8700'	TMD Elevation: 3510.1'
SL-Lat: 32.4137100	Long: 103.7574919 X=67770	2.9 Y=514700.6 NAD - 1927

X=677633.4

Y=512964.5

NAD - 1927

1. Geologic Name of Surface Formation:

a. Permian

BHL-Lat: 32,4089388

2. Estimated Tops of Geological Markers & Depths of Anticipated Fresh Water, Oil or Gas:

Long: 103.7577473

Geological Marker	Depth	Type
a. Upper Permian Sand	450'	Water
b. Anhydrite	3853'	
c. Delaware	4035'	Oil
d. Bell Canyon	4107'	Oil
e. Cherry Canyon	4984'	Oil
f. Brushy Canyon	6275'	Oil
g. Bone Springs	7938'	Oil

3. Casing Program: SEE COA

<u>Hole</u> <u>Size</u>	Interval	<u>OD Csg</u>	<u>Weight</u>	<u>Collar</u>	<u>Grade</u>	Condition	<u>Collapse</u> <u>Design</u> <u>Factor</u>	<u>Burst</u> Design Factor	<u>Tension</u> <u>Design</u> <u>Factor</u>
14-3/4"	680'	11-3/4"	42#	ST&C	H40	New	8.69	5.69	2.37
		4100							
10-5/8"、	4090	8-5/8"	32#	LT&C	J55	New	2.32	1.31	2
	8643		Ф						
7-7/8"	8700	5-1/2"	17#	LT&C	J55	New	1.27	1.4	1.94
н.	(DVT-3950'	н							
	<u> \</u>								

4. Cement Program

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" R See COA
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a. 11-3/4" Surface Circulate cement to Surface w/ 270sx PP w/ 4% Bentonite + 2% CaCl2, 13.5 ppg , 1.74 yield followed by 270sx PP w/ 2% CaCl₂., 14.8 ppg 1.34 yield

- b. 8-5/8" Intermediate Circulate cement to surface w/ 900sx HES light PP w/ 5% Salt + 5#/sx Gilsonite + .125#/sx Poly-E-Flake 12.9 ppg 1.87 yield followed by 200sx PP, 14.8 ppg 1.32 yield.
- c. 5-1/2" Production Cement 1st stage w/ 260sx IFH w/ 5# Gilsonite + .125#/sx Poly-E-Flake, 11.5 ppg 2.80 yield followed by 370sx Super H w/ .5% LAP-1 + .4% CFR-3 + 5#/sx Gilsonite + 3#/sx Salt + .25% D-AIR 1, 13.2 ppg 1.65 yield. Cement 2nd stage w/ 230sx IFC w/ .5% LAP-1 + .25#/sx CFR-3 11.5ppg 2.78 yield followed by 100sx PP 14.8 ppg 1.32 yield Estimated TOC @ Surface. \rightarrow 2nd Stage 290sx/150sx per operator 6/29/09

The above cement volumes could be revised pending the caliper measurement. $RGH = \frac{9}{09}/09$

5. Pressure Control Equipment:

1

Spe

Surface 0-680'

Production 680-8700'

11" X 5M Double Ram, 11" X 3M Annular, 5M Choke Manifold

All BOP's and associated equipment will be tested to 1200psi with the rig pump before drilling out the 11-3/4" casing shoe. Prior to drilling out the 8-5/8" casing shoe, the BOP's and Hydril will be tested as per BLM Drilling Operations Order #2.

None

Pipe Rams will be operated and checked each 24-hour period and each time the drill pipe is out of the hole. These functional tests will be documented on the daily driller's log. A 2" kill line and 3" choke line will be incorporated in the drilling spool below the ram-type BOP. Other accessory BOP equipment will include a Kelly cock, floor safety valve, choke lines and choke manifold having a 5000 psi WP rating.

Request variance to connect BOP outlet to the choke manifold a flex line that is manufactured by Contitech Rubber Industrial KFT. It is a 3" ID X 35' flexible hose rated to 10000psi working pressure. It has been tested to 15000psi and is built to API Spec 16C. Once the flex line is installed, it will be tied down with safety clamps, certification attached.

<u>Depth</u>	<u>Mud Wt.</u> ppg	<u>Visc</u> sec	<u>Fluid</u> Loss	Type System	
0-680'	8.4-8.8	32-34	NC	Fresh Water/MI Gel Spud Mud	
680-4000'	9.9-10.0	28-29	NC	Brine Water	
4000-7900'	8.4-8.5	28-29	NC	Fresh Water	
7900-8700'	9.5-9.6	32-36	10-15	FW Mud/Duo Vis/Poly Pac R	

6. Proposed Mud Circulation System

The necessary mud products for weight additional and fluid loss control will be on location at all times.

7. Auxiliary Well Control and Monitoring Equipment:

- a. A Kelly cock will be in the drill string at all times.
- b. A full opening drill pipe stabbing valve having the appropriate connections will be on the rig floor at all times.
- c. Hydrogen Sulfide detection equipment will be in operation after drilling out the surface casing shoe until the production casing is cemented. Breathing equipment will be on location upon drilling the surface casing shoe until total depth is reached.

8. Logging, Coring and Testing Program:

- a. Drill stem tests are not anticipated but if done will be based on geological sample'shows.
- b. The open hole electrical logging program will consist of Triple Combo CNL\LDT\DLL. 🗲 SEE COA
- c. No coring program is planned but if done will be sidewall rotary cores.
- d. Mud logging program will be initiated from 4000' to TD.

9. Potential Hazards:

No abnormal pressures, temperatures or H_2S gas are expected. The highest anticipated pressure gradient would 0.55psi/ft. If H_2S is encountered the operator will comply with the provisions of Onshore Oil & Gas Order No. 6. No lost circulation is expected to occur. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. Adequate flare lines will be installed off the mud/gas separator where gas may be flared safely.

10. Anticipated Starting Date and Duration of Operations:

Road and location construction will begin after the BLM has approved the APD. Anticipated spud date will be as soon as possible after BLM approval and as soon as a rig will be available. Move in operations and drilling is expected to take 45 days. If production casing is run, then an additional 30 days will be needed to complete the well and construct surface facilities and/or lay flow lines in order to place well on production.

Drilling Program 3



OXY Permian

Eddy County, NM Lost Tank 10 Federal Unit Well #5 OH

Plan: Plan #1

Global X&Y Report

14 May, 2009







PathFinder Energy Services

Global X&Y Report



Project: Site: Well: Wellbore:	XY Permian ddy County, NN ost Tank 10 Feo 'ell #5 H an #1					TVD Refere MD Referen North Refer	nce: rence: culation Method:	Well Well #5 Est. RKB @ 3526.60ft Est. RKB @ 3526.60ft Grid Minimum Curvature Landmark Network DB	
Project	Eddy	County, NM	and the second	and here a second construction of the second se			-		I a First and a structure to a second state of the second state of the second state of the second state of the
Map System: Geo Datum: Map Zone:	US State Plar NAD 1927 (N New Mexico E	ADCON CON	t solution) US)			System Da	atum:	Mean Sea Level	
Site	Lost 1	ank 10 Feder	al Unit		lans of a soft to fait the soft of the	and and the first of the second s		alanda ayalada ka Bazila ya ka ana ka	and and a the stand of the stan
Site Position: From: Position Uncertain	Map n ty:	0.00 ft		Northing: Easting: Slot Radi		514,900.60 ft 677,702.00 ft	Latitude Longitud Grid Col		32° 24' 51.33500 N 103° 45' 26.96906 W 0.31 °
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Well Position	+N/-S +E/-W	0.00 ft 0.00 ft		Northing: Easting:	67	4,700.00 ft 7,702.90 ft		Latitude: Longitude:	32° 24' 49.34990 N 103° 45' 26.97117 W
Position Uncertain	nty	0.00 ft		Wellhead El	evation:	ft		Ground Level:	3,510.10 ft
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Magnetics	Model Na	ame	Sample Date	Declination (°)	Dip An (°)		eld Strength (nT)		
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Version:			Phase:	PLAN	Tie On Depth:	0.00	aanaanii aa yaa ahaa ahaa ahaa ahaa ahaa ahaa	understandige af familie and a state of the Britishing and the Britishing and the Britishing and the state of t	ndunanda unatettaran paramaganan dinakantu makanyandan di induktionan
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PathFinder Energy Services Global X&Y Report



Project: Eddy (· · · ·					Local Co-ordin TVD Reference MD Reference: North Reference Survey Calcula Database:	:e:	Well Well #5. Est. RKB @ 3526.60ft Est. RKB @ 3526.60ft Grid Minimum Curvature Landmark Network DB
Planned Survey	and a second with a second sec		an de la presidente de la companya d Anticipada de la companya de la comp	and and a standard a			and the second s	z - neranturater i terreta interneta interneta interneta anterneta en esta en el constituidaden en en en en en
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4,198.00	0.00	0.00	4,198.00	-671.40	0.00	514,700.00	677,702.90	0.00
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4,300.00	2.00	182.29	4,299.98	-773.38	1.75	514,698.26	677,702.83	2.00
4,400.00	4.00	182.29	4,399.84	-873.24	6.98	514,693.03	677,702.62	2.00
4,500.00	6.00	182.29	4,499.45	-972.85	15.69	514,684.32	677,702.27	2.00
4,600.00	8.00	182.29	4,598.70	-1,072.10	27.88	514,672.14	677,701.78	2.00
4,700.00	10.00	182.29	4,697.47	-1,170.87	43.52	514,656.51	677,701.16	2.00
4,800.00	12.00	182.29	4,795.62	-1,269.02	62.60	514,637.45	677,700.40	2.00
4,900.00	14.00	182.29	4,893.06	-1,366.46	85.10	514,614.97	677,699.50	2.00
5,000.00	16.00	182.29	4,989.64	-1,463.04	110.98	514,589.11	677,698.46	2.00
5,100.00	18.00	182.29	5,085.27	-1,558.67	140.21	514,559.90	677,697.29	2.00
5,200.00	20.00	182.29	5,179.82	-1,653.22	172.77	514,527.37	677,695.99	2.00
5,300.00	22.00	182.29	5,273.17	-1,746.57	208.60	514,491.56	677,694.55	2.00
5,400.00	24.00	182.29	5,365.21	-1,838.61	247.67	514,452.52	677,692.99	2.00
5,500.00	26.00	182.29	5,455.84	-1,929.24	289.93	514,410.30	677,691.30	2.00
5,608.52	28.17	182.29	5,552.45	-2,025.85	339.34	514,360.93	677,689.32	2.00
5,700.00	28.17	182.29	5,633.10	-2,106.50	382.53	514,317.78	677,687.59	0.00
5,800.00	28.17	182.29	5,721.25	-2,194.65	429.74	514,270.61	677,685.71	0.00
5,900.00	28.17	182.29	5,809.41	-2,282.81	476.95	514,223.43	677,683.82	0.00
6,000.00	28.17	182.29	5,897.56	-2,370.96	524.16	514,176.26	677,681.93	0.00
6,100.00	28.17	182.29	5,985.72	-2,459.12	571.37	514,129.09	677,680.04	0.00
6,200.00	28.17	182.29	6,073.87	-2,547.27	618.58	514,081.92	677,678.15	0.00
6,300.00	28.17	182.29	6,162.03	-2,635.43	665.79	514,034.75	677,676.26	0.00
6,400.00	28.17	182.29	6,250.18	-2,723.58	713.00	513,987.57	677,674.37	0.00
6,500.00	28.17	182.29	6,338.34	-2,811.74	760.21	513,940.40	677,672.48	0.00

COMPASS 2003.16 Build 42H



PathFinder Energy Services Global X&Y Report



	ounty, NM nk 10 Federal Unit					Local Co-ordin TVD Reference: MD Reference: North Reference Survey Calcula Database:	:: E :e: tion Method:	Vell Well #5 st. RKB @ 3526.60ft st. RKB @ 3526.60ft Jinimum Curvature andmark Network DB	
Plannéd Surveý MD	linc ()	Ażi (°)	TVD (ft)	TVDSS (ft)	V Sec (ft)	Northing (ft)	Easting (ft)	DLeg, %100ft)	
, 6,600.00	28.17	182.29	6,426.49	-2,899.89	807.42	513,893.23	677,670.59	0.00	
6,700.00	28.17	182.29	6,514.64	-2,988.04	854.62	513,846.06	677,668.71	0.00	
6,800.00	28.17	182.29	6,602.80	-3,076.20	901.83	513,798.89	677,666.82	0.00	
6,900.00	28.17	182.29	6,690.95	-3,164.35	949.04	513,751.72	677,664.93	0.00	
7,000.00	28.17	182.29	6,779.11	-3,252.51	996.25	513,704.54	677,663.04	0.00	
7,100.00	28.17	182.29	6,867.26	-3,340.66	1,043.46	513,657.37	677,661.15	0.00	
7,200.00	28.17	182.29	6,955.42	-3,428.82	1,090.67	513,610.20	677,659.26	0.00	
7,300.00	28.17	182.29	7,043.57	-3,516.97	1,137.88	513,563.03	677,657.37	0.00	
7,400.00	28.17	182.29	7,131.73	-3,605.13	1,185.09	513,515.86	677,655.48	0.00	
7,500.00	28.17	182.29	7,219.88	-3,693.28	1,232.30	513,468.69	677,653.59	0.00	
7,600.00	28.17	182.29	7,308.04	-3,781.44	1,279.51	513,421.51	677,651.71	0.00	
7,700.00	28.17	182.29	7,396.19	-3,869.59	1,326.72	513,374.34	677,649.82	0.00	
7,800.00	28.17	182.29	7,484.35	-3,957.75	1,373.93	513,327.17	677,647.93	0.00	
7,900.00	28.17	182.29	7,572.50	-4,045.90	1,421.14	513,280.00	677,646.04	0.00	
8,000.00	28.17	182.29	7,660.66	-4,134.06	1,468.35	513,232.83	677,644.15	0.00	
8,100.00	28.17	182.29	7,748.81	-4,222.21	1,515.56	513,185.66	677,642.26	0.00	
8,200.00	28.17	182.29	7,836.97	-4,310.37	1,562.77	513,138.48	677,640.37	0.00	
8,256.76	28.17	182.29	7,887.00	-4,360.40	1,589.56	513,111.71	677,639.30	0.00	
LT 10 Fed #5 BC	A	10 N. M.	-						
8,300.00	28.17	182.29	7,925.12	-4,398.52	1,609.98	513,091.31	677,638.48	0.00	
8,400.00	28.17	182.29	8,013.28	-4,486.68	1,657.19	513,044.14	677,636.59	0.00	
8,500.00	28.17	182.29	8,101.43	-4,574.83	1,704.40	512,996.97	677,634.71	0.00	
8,568.82	28.17	182.29	8,162.10	-4,635.50	1,736.89	512,964.50	677,633.41	0.00	
LT 10 Fed #5.Bo 8,600.00	ne Springs 28.17	182.29	8,189.58	-4,662.98	1,751.61	512,949.80	677,632.82	0.00	
8,642.56	28.17	182.29	8,227.10	-4,700.50	1,771.70	512,929.72	677,632.01	0.00	

5/14/2009 7:12:54AM

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COMPASS 2003.16 Build 42H

Permian			·	PathFinder Global	Energy Ser X&Y Report	vices	PATHEINDER
Company: Project: Site: Well: Well: Design: OXY Permian Eddy County, Lost Tank 10 Well #5 OH Plan #1						Local Co-ordinate Ref TVD Reference: MD Reference: North Reference: Survey Calculation Me Database:	Est: RKB @ 3526.60ft Est. RKB @ 3526.60ft Grid
the South and Incation in the second second	Angle (°)	Dip Dir. (१)	TVD (ft)	+N/-S (ft)	+E/-W	Northing (ft)	Easting (ft) Latitude Longitude
LT 10 Fed #5 Bone Si - plan hits target center - Point	0.00	0.00	8,162.10	-1,735.50	-69.50	512,964.50	677,633.40 32° 24' 32.17981 N 03° 45' 27.89092 W
LT 10 Fed #5 BC A - plan hits target center - Circle (radius 50.00)	0.00	0.00	7,887.00	-1,588.29	-63.60	513,111.71	677,639.30 32° 24' 33.63623 N 03° 45' 27.81285 W
- Circle (radius 50.00) Formations Measured Depth (ft) 4.198.00	Vertical Depth (ft) 4.198.00		me	Litho	when the second so at	Dip Dip (°) 0.00	
4,198.00	4,190.00						
Checked By:				Approved By:			Date:

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OXY FLEX IV PAD (Closed Loop System)

Revised 05/14/2009









CERTIFICATE OF CONFORMITY

 Supplier
 : CONTITECH RUBBER INDUSTRIAL KFT.

 Equipment:
 6 pcs.
 Choke and Klil Hose with installed couplings

 Type:
 3" x 10,67 m WP: 10000 psl

 Supplier File Number
 : 412638

 Dats of Shipment
 : April. 2008

 Customer
 : Phoentx Beattie Co.

 Customer P.o.
 : 002491

 Referenced Standards
 : April Spec 16 C

 Serial No.: 52754,52755,52776,52777,527782

STATEMENT OF CONFORMITY

We hereby certify that the above items/equipment supplied by us are in conformity with the terms, conditions and specifications of the above Purchaser Order and that these items/equipment were fabricated inspected and tested in accordance with the referenced standards, codes and specifications and meet the relevant acceptance criteria and design requirements.

COUNTRY OF ORIGIN HUNGARY/EU

Dec Signed :...

Date: 04. April. 2008

Position: Q.C. Manager

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Part No	Description	Material Deec	Material Spec	Otty			Test Cart No	Bin No	Drg No	Issue No
18034-38-471	3" 18K 18C CBK 1886 x 3875 DR.			1		62777/MBA				
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C788-298C8	SWETY CLARP SHOW 7.25T	CANNER STREE		1	2019			۲.		
C/28-12805	SWETT CLARP 1988 7 SET	Calificati Strett.		1	\$242	10,36		#	······	
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We haraby partify that these goods have been inspected by our Quality Management System, and to the best of our knowledge are found to conform to relevant industry etanderds within the requirements of the purchase order as issued to Phoenix Bestie Corporation.

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Onfinental 3 CONTITECH

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INSPECTION	ITY CONT AND TEST		CATE		CERT.	N 1.	7 48	
PURCHABER:	Phoenix Ber	zitie Co.			P.O. N	: 0	02481	
CONTITECH ORDER Nº:	412638	HOSE TYPE	3"	Ð	Ch	oke and Ki	l Hose	
HOBE SERIAL Nº:	52777	NOMINAL / AC	TUALL	ENGTH		10,67 m		
W.F. 68,96 MPa	0000 🛤	T.P. 103,4	MPe	15000	pet	Duration:	60 ~	min
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† 10 mm = 10 ¥min								-
† 10 mm = 10 мm → 10 mm = 25 мm	-	COLE	Lines 4					- ,
	· · · · · · · · · · · · · · · · · · ·	COUP Seriel N*	Lings	Q			Haat N ^e	-
→ 10 mm = 25 MP	· · · · · · · · · · · · · · · · · · ·			Cu AISI 4			Heat N*	
→ 10 mm = 25 MP Type		Serlei Nº		· · · · · ·	130			-
→ 10 mm = 25 MP Type 3° coupling with	ED	Serted Nº 913 BH MANUFACTUR		AISI 4	1130	Tem	T7996A 25984 PI Spec 16 perature ra	be:"B"

Pegw: 1/1



Form No 100/12 Contix Beattie Corp Seritase Ant brie att 17/64 Stat 17/64

Delivery Note

Customer Order Number	379-369-001	Delivery Note Number	003678	Page	1
Customer / Invoice Addres HELMERICH & PAVNE DAT'L D 1437 SOUTH BOULDER TULSA, OK 74119		Delivery / Address HELMERICH & PAYME IDC ATTM: JOS STEMBESSM - RE 13609 INDUSTRIAL ROMO HOLSTOR. TX 77015	6 370		

Customer Aco No Phoenix Bestle Contract Manager Phoenix Bestle Reference Date H01 JJL 095338 05/23/2008

itum No	Bestle Part Number / Description	Qity Ordered	Oty Sent	Qty To Follow
1	HP10CCM-36-4F1 3' 10K 16C C4K HOSE x 35ft ON, OH 4 1/16' API SPEC FLANGE E/ End 1: 4.1/16' 10Cpc1 API Spec 6A Type GAK Flange End 2: 4.1/16' 10Cpc1 API Spec 6A Type GAK Flange C/W BX155 Standard ring groove at each end Suitable for H2S Service Honting pressure: 10,000pc1 Test pressure: 10,000pc1 Test pressure: 15,000pc1 Test pressure: 15,000pc1 Fire Rating: Hot Included Fire Rating: Hot Included Tempereture reting: -20 Deg C to +100 Deg C	1	1	٥
-	SECKG-HAF73 LIFTING & SAFETY EQUIPMENT TO SUIT HP10CK3-36-F1 2 x 160mm 10 Safety Claups 2 x 244mm 10 Lifting Collars & element C's 2 x 7ft Stainless Stael wire rope 3/4°00 4 x 7.76t Sheckles	1	1	0
	5(725-200C) Safety (J.amp 200mm 7 25t C/S Galvinised	1	1	0

---- PHOENIX Beattie

Form No 100/12 nix Beattie Corp Name Pet Pin 17 704 0 27-540 0 27-640 10 20-400 1

Delivery Note

Customer Order Number 370-369-001	Delivery Note Number	003078	Page	2
Customer / hvvotce Addrese HELMERICH & PAYNE IMT'L DATILLING CO 1497 SOUTH BOLLDER TULSA, OK 74119	Delivery / Address HELHERICH & PAYNE IDC ATTH: JOE STEPHENSON - RI 13609 INCUSTRIAL RDAD HOUSTON, TX 77015	36 370		

 Customer Ace No
 Phoenix Bestile Contract Manager
 Phoenix Bestile Reference
 Date

 H01
 JJL
 006530
 06/23/2008

item No	Seattle Part Number / Description	City Ordered	Qty Sent	Oty To Follow
4	sc725-13205 Safety Clamp 132mi 7.25t C/S Galvarized C/N Bolts	1	1	0
5	OCERT-HYDRO HYDROSTATIC PRESSURE TEST CERTIFICATE	1	1	Û
6	OOCERT-LAND LDND TEST CERTIFICATES	1	1	0
	OOFREIGHT Ingolud / Oltbound Freight Ree-Pay & add to Final Invoice MTE: Mittern, wist de accompanied by paperadrk including The Plachase order, rig number to ensure proper payment	1	1	0
		Pa		
	Phoenix Beattle Inspection Signature :		Mer	
	Received in Good Condition : Signature		\	
	Print Name		<u>``</u>	

Deep All goods remain the property of Phoenic Beaclis und5 paid for in full. Any damage or shortage on this delivery must be advised within 5 days. Returns may be addect to a handling charge.



EMERGENCY ACTION PLAN

POTASH AREA

Federal 23 Federal 29 Lost Tank 3 Federal Lost Tank 4 Federal Lost Tank 10 Federal Lost Tank 11 Federal Mobil Federal

DRILLING/WORKOVER

DRILLING AND CRITICAL WELL OPERATIONS

Bureau of Land Management, RECEIVED

MAY 1 8 2009

Carlsbad Field Office Carlsbad, N.M.

Page 1 of 15

DRILLING/WORKOVER DRILLING AND CRITICAL WELL OPERATIONS

EMERGENCY ACTION PLAN

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PREFACE

An effective and viable Emergency Action Plan (EAP) is intended to provide prior planning and guidance in An errective and viable Emergency Action Flan (EAF) is intended to provide prior planning and guidance in responding to emergency incidents. The primary considerations in its development are protection of personnel, the public, company and public property, and the environment. Although the plan addresses varied emergency situations that may occur, it recognizes that flexibility and the

Autougn the plan addresses varied emergency situations that may occur, it recognizes that nextbillity and the use of the organization's knowledge and experience is critical to safe resolution of emergency incidents. use or the organization's knowledge and experience is critical to sate resolution or emergency incidents. Response actions outlined in the plan provide a framework, which may be placed into operation without initial period and Response actions outlined in the plan provide a tramework, which may be placed into operation without confusion. These actions should promote quick and decisive actions during the critical initial period and immediately following the critical initial period and contrusion. These actions should promote quick and decisive actions during the critical initial period and immediately following an emergency. As the response progresses, additional guidelines and procedures may action of the critical distance. In addition of operations incidents must be proved as the critical distance. need to be implemented as the situation dictates. In addition, all emergency incidents must be properly reported per the Oxy Incident Reporting and Notification Policy, state and federal requirements, etc. The following procedures are provided as Oxy Permian's minimum expectations. The Contractor's own Ine rollowing: procedures are provided as Oxy Permian's minimum expectations. The contractor's own procedures may be utilized in lieu of Oxy Permian's, provided that it meets or exceeds the minimum and the thick is not all inclusions with the directly of the thick is not all inclusions with the directly of the thick is not all inclusions.

procedures may be utilized in lieu or Oxy Permian's, provided that it meets or exceeds the minimum deliverables. It should be understood that this list is not all-inclusive, but the overall plan should assist in lateral application to similar incidents. This EAP is intended for use on Oxy Drilling/Workover projects and the operations within their area of

EMERGENCY RESPONSE ACTIVATION AND GENERAL RESPONSIBILITIES

Activation of the Emergency Action Plan

A In the event of any emergency situation, all personnel on location should first ensure that the following items are initiated. After that, they should refer to the appropriate Specific Emergency Guidance sections on pages five (5) through nine (9) in this document for further responsibilities

- Notify the senior ranking contract representative on site. Notify Oxy representative in charge 2
- 3
- Notify civil authorities if the Oxy Representative cannot be contacted and the situation dictates. 4. Perform rescue and first aid as required (without jeopardizing additional personnel).

General Responsibilities

Oxy Permian Personnel:

A Drill Site Manager: The Oxy Drilling/Critical Well Servicing Operations Specialist or contract personnel serving in that capacity will serve as Operations Chief Officer for all emergency incidents.

- 1. Notification to the Drilling/Workover Team Leader of the incident occurrence.
- 2. Notification to the local RMT/PMT leader of the incident occurrence, and the need for the designated local RMT/PMT Incident Commander to act in that capacity for the response effort. 3. Sole control of all tactical activities directed toward reducing the immediate hazard, establishing

situational control and restoring the operations to a non-emergency state.

- Local RMT/PMT Designated Incident Commander: The Oxy local RMT/PMT Designated Incident Commander will serve as the overall Incident Commander for the drilling or critical well servicing emergency incident. The Incident Commander is responsible for
- 1.
- Coordinating with the Drilling Manager for notification to the Oxy Crisis Management team of the Establishing and managing the overall incident command structure and response from inception 2

- Drilling/Workover HES Tech: The Drilling/Workover HES Tech (or his designate) is responsible for reporting to the incident as soon as reasonably possible, to provide support to the response effort as required by the Operations Chief Officer or the Incident Commander.

Contract Drilling Personnel will immediately report to their assigned stations and perform their duties as outlined in the appropriate Specific Emergency Guidance sections on pages five (5) through nine (9) in this document.

Other Contractor Personnel will report to the safe briefing area to assist Oxy personnel and civil authorities as requested when it is safe to do so and if they have been adequately trained in their

- Civil Authorities (Law Enforcement, Fire, and EMS) will be responsible for:
 - 1 Establishing membership in the Unified Incident Command

 - 2. As directed by the Incident Commander and the Unified Command, control site access, re-route

 - 3. Perform all fire control activities in coordination with the Unified Command. 4 Initiate public evacuation plans as instructed by the Incident Commander 5. Perform rescue or recovery activities with coordination from the Unified Command.
 - 6. Provide medical assistance as dictated by the situation at hand.

WELL CONTROL

The following procedures will be implemented when a loss of primary control is indicated. Indicators of loss of primary control are flow from the well, an increase in pit volume, or when the drilling fluid used to fill the hole on trips is less than the calculated pipe displacement volume. The emergency signal for well control procedures will be a single long blast of the rig air horn.

Kick While Drilling - Procedures And Responsibilities

Driller:

- 1. / Stop the rotary and hoist the kelly above the rotary table.
- 2. Stop the mud pump(s).
- Check for flow: 3.
- 4 If flowing, sound the alarm immediately.
- 5.´ Ensure that all crew members fill their responsibilities to secure the well.
- 6. Record drill pipe and casing shut-in pressures and pit volume increase and begin kill sheet.

Derrickman:

- 1. Go to BOP/choke manifold area.
- 2. Open choke line valve on BOP.
- 3. Signal to Floorman #1 that the choke line is open.
- 4. Close chokes after annular or pipe rams are closed.
- 5. Record shut-in casing pressure and pit volume increase.
- 6. Report readings and observations to Driller.
- Verify actual mud weight in suction pit and report to Driller. 7.3
- Be readily available as required for additional tasks. 8. 5

Floorman # 1:

- 1. Go to accumulator control station and await signal from Derrickman.
- 2. Close annular preventer and HCR on signal (if available, if not then close pipe rams).
- 3. Record accumulator pressures and check for leaks in the BOP or accumulator system.
- 4. Report to Driller, and be readily available as required for additional tasks.

Floorman # 2:

- Start water on motor exhausts. 1.
- 2. Notify Contractor Tool Pusher or Rig Manager of well control situation.
- Check location for ignition sources and extinguish or turn off, and stop any welding in progress.
- 4. Report to Driller, and be readily available as required for additional tasks.

Floorman # 3:

1. Stand-by with Driller, and be readily available as required for additional tasks.

Tool Pusher/Rig Manager:

- 1. Notify Oxy Representative and report to rig floor.
- 2. Review and verify all pertinent information.
- 3. Communicate information to Oxy Representative, and confer on an action plan.
- 4. Finalize well control worksheets, calculations and preparatory work for action plan. رىيارىمىتىدى بالمايية تمار بر يعار مجمعة يتجاجر أحمياء خارا أجرد ما سلطوهمارا
- 5: Initiate and ensure the action plan is carried out.
- 6 Communicate any changes in well or site conditions, or any indications that the action plan needs to be revised to the Oxy representative.

Oxy Representative:

Notify Drilling Superintendent or Drilling Manager and RMT Leader or Local Incident Commander; and Police, Fire Department, or other local emergency services as required.

Kick While Tripping - Procedures and Responsibilities

Driller:

- 1. Sound the alarm immediately when pipe displacement volume is less than 75% of calculated.
- 2. Position the upper tool joint just above rotary table and set slips.
- 3 Check for flow.
- 4. Ensure that all crew members fill their responsibilities to secure the well.
- 5. Record drill pipe and casing shut-in pressures and pit volume increase, and begin kill sheets.

Derrickman: (same as while drilling)

Floor Man # 1

- 1. Install full opening valve (with help from Floorman #2) in top drill string connection.
 - 2. Tighten valve with make up tongs.
 - 3. Go to accumulator control station and await signal from Derrickman.
 - 4. Close annular preventer and HCR valve on signal (if available, if not then close pipe rams).
 - 5: Record accumulator pressures and check for leaks in the BOP and accumulator system.
 - 6. Report to Driller, and be readily available as required for additional tasks.

Floor Man # 2:

- 1. Assist installing full opening valve in drill string.
- 2. Position back-up tongs for valve make-up.
- 3. Start water on motor exhausts
- 4. Notify Contractor Tool Pusher or Rig Manager of well control situation.
- 5. Check location for ignition sources and extinguish or turn off; and stop any welding in progress.
- 6. Report to Driller, and be readily available as required for additional tasks.

Floorman # 3, Rig Manager/Tool Pusher, and Oxy Representative: (same as while drilling)

H2S RELEASE

The following procedures and responsibilities will be implemented on activation of the H2S siren and lights.

All Personnel:

1. On alarm, don escape unit (if available) and report to upwind briefing area.

Rig Manager/Tool Pusher:

- Check that all personnel are accounted for and their condition.
 - 2. Administer or arrange for first aid treatment, and /or call EMTs as needed
 - 3. Identify two people best suited to secure well and perform rescue, and instruct them to don SCBA
 - 4. Notify Contractor management and Oxy Representative.
 - 5. Remain at the briefing area, assess and monitor personnel and overall situation for hazards or conditions that might warrant a change in the action plan.

Two People Responsible For Shut-in and Rescue:

- Don SCBA and acquire tools to secure well and perform rescue, i.e., wrenches, retrieval ropes, etc.
- 2. Utilize the buddy system to secure well and perform rescue(s).
- 3. Return to the briefing area and stand by for further instructions.

All Other Personnel:

1. Remain at the briefing area and await further instructions - do not leave unless instructed.

Oxy Representative:

- 1. Remain at the briefing area, assess and monitor personnel and overall situation for hazards or conditions that might warrant a change in the action plan.
- 2. Notify Drilling Superintendent or Drilling Manager and RMT Leader or Local Incident Commander, and Police, Fire Department, or other local emergency services as required.

PERSONAL INJURY OR DEATH

Call for assistance, and then administer first aid for the injured. Treatment should be prioritized by lifethreatening conditions:

A. Do not move injured personnel unless they are in imminent danger. An ambulance should be summoned for any injury that appears to be serious

FIRE OR EXPLOSION

Fire Fighting Philosophy

It is Oxy Permian's intent that Oxy and contract personnel will only extinguish incipient or beginning stage fires and perform or assist in initial non-threatening rescue operations. The responding fire department will be given primacy when they arrive to control a fire on any Oxy property. Any Oxy or contract employee who participates in a fire response must be fully trained and qualified as such, and must be utilizing appropriate Personal Protective Equipment.

Contract and Oxy Personnel Deployment

In the event of a fire or explosion all personnel will report to the safe briefing area. The Senior Contract Representative on site will designate personnel for rescue as appropriate depending on their qualifications and the risks of the rescue. Any rescue which involves significant risk to those performing the rescue should be deferred to professional response personnel.

No personnel will leave the area without direction / permission from the Senior Contract Representative onsite.

The Senior Contract Representative on site will notify local emergency response personnel as required, along with the Contract Company management and the Oxy Representative as soon as reasonably possible.

SPILLS

In the event of a significant spill of any substance, the person discovering it should immediately notify the rig supervisor and the Oxy Representative. Personnel onsite should **NOT** attempt identification, control or containment unless they are absolutely sure of the product spilled, are fully aware of the hazard characteristics, and are equipped with the appropriate personal protective equipment.

HYDROCARBON VAPOR CLOUD RELEASE

Upon discovery of a Hydrocarbon Vapor Cloud (NGL) release, take immediate safety precautions to protect any company personnel or others that might be in the area. Other emergency actions should be initiated only by trained expert personnel from the appropriate pipeline company.

The following guidelines should be followed:

- 1. Immediately notify the rig supervisor and the Oxy Representative.
- 2. Determine wind direction, and evacuate upwind or at 90 degrees to the release.
- 3. Maintain a safe distance from the cloud.
- 4. Render first aid and call for an ambulance as necessary.
- 5. Attempt to warn approaching individuals of the hazard

BOMB THREAT

In the event of a bomb threat, the person receiving the call, on or off site, should try to get as much information as possible from the caller. The person receiving the call should immediately contact the supervisor in charge Evacuation of the field should be considered at this time. Roadblocks may need to be installed. The supervisor in charge should make all appropriate contacts.

The Supervisor contacted should:

- a: Realize that every bomb threat is serious
- b. Notify Corporate Security
- c. Inform Police/Sheriff's Department and Fire Department
- d. Contact RMT Leader or his designated relief to coordinate search efforts with the assistance of the local law enforcement agencies.

BOMB THREAT CHECKLIST

Date_____Name of person taking call

FILL OUT COMPLETELY IMMEDIATELY AFTER BOMB THREAT

- 1. When is the bomb set to explode?
- 2. Where is the bomb located?
- 3. What does the bomb look like?
- 4. What type of bomb is it?
- 5. What will cause the bomb to explode?
- 6. Did the caller place the bomb?
- 7. Why did the caller place the bomb?
- 8. What is the caller's name and address?

Callers: Sex___Age___Race__Length of call_____

DESCRIPTION OF CALLER'S VOICE (Check all that apply)

	<u>Calm</u>	Rapid	Laughin	ğLisp	24 - 124 - <u></u>	Disguised	بشري
-	Angry	Crying	Raspy	Accent		Familiar? Who did	ľ,
<u> </u>	Excited	Normal	Deep	Stutter		it sound like?	, ×.
- -	Slow	Distinct	Ragged	Deep		Deep Breathing	
<u> </u>	Loud	Slurred	Nasal	Clearing	Throat		
3.	玉田 ごん やっさいしい	The second second					· ' 2

BACKGROUND SOUNDS:

StreetHouseFactoryMusic	Local Call
NoisesMachineryStatic	Long Distance
VoicesMotorAnimalsPA System	Phone Booth
Office State Clear Clear Other	

THREAT LANGUAGE:

영상, 그 같아요. 그 같은 것은 것 것 것 같은 그는 것 것 ?			الحالية المراجع <u>الم</u> اركة المراجع المراجع الم
Well-Spoken Foul	Incoherent	Irrational	Taped
Message Read by Threat	Maker		

REMARKS:

NATURAL DISASTERS

Tornadoes

Indoors:

These general procedures should be followed by everyone seeking shelter from a severe storm or tornado:

- Protect yourself from flying glass and debris.
- 2. Take refuge near the core of the building for maximum protection. Do not smoke while taking shelter.
 - Shut all doors to offices, if time permits:

In the field

- 1. Seek cover in a low-lying area, such as a culvert, ditch, pit, or water injection valve box.
- Stay away from power lines.
- 4. Cover your head with your arms and clothing.

Thunderstorms

Indoors:

- 1. Avoid water pipes, sinks, showers, tubs, etc: Stay away from doors and windows. 2. 1
- 3. Do not use the telephone.
- 4. Take off head sets.
- 5. Turn off, unplug, and stay away from appliances, computers, power tools, & TV sets

In the field:

05/18/2009

- Avoid water.
- 1 2.
- Avoid high ground and open spaces 3.
- Avoid all metal objects including electric wires, fences, machinery, motors, power tools, etc. Unsafe places include underneath canopies, small picnic or rain shelters, or near trees. Where possible, find shelter in a substantial building or in a fully enclosed metal vehicle such as a car, truck or a van with the windows completely shut. If lightning is striking nearby when you are
 - - a. Crouch down, feet together, hands over ears
- Avoid proximity (minimum of 15 ft.) to other people. 4. SUSPEND ACTIVITIES for 30 minutes after the last observed lightning or thunder.

PUBLIC RELATIONS

Oxy recognizes that the news media have a legitimate interest in incidents at Oxy facilities that could affect the public. It is to the company's benefit to cooperate with the news media when incidents occur because these

- Our objective is to see that all reports of any emergency are factual and represent the company's position fairly and accurately. Cooperation with news media representatives is the most reliable guarantee that this objective

All contract and Oxy employees are instructed NOT to make any statement to the media concerning the emergency incident. If a media representative contacts any employee, they should refer them to the designated Emergency Command Center where they should contact the Incident Commander or his designated relief for

Drilling Dept. Emergency Contact list

Drilling Manager Scott Cooper 713-366-5325 office 281-352-5865 cell

Drilling Superintendent Festus Hagan 713-366-5946 office 432-894-5352 cell

Drilling Eng. Supervisor Richard Jackson 713-215-7235 office 281-467-6383 cell

HES Specialist-Drilling Brian Bielss 432-685-5719 office 432-813-6335 cell

Drilling Coordinator Drue Dunaway 432-685-5715 office 432-556-3288 cell

Drilling Coordinator Kevin Videtich 806-592-6213 office 806-891-2000 cell

OAT TEImian incident Reporting	THOME LIST		
OXY Permian Crisis Team Hotline	Notification	(713) 935-7210	
Person	Location	Office Phone	Cell/Mobile Phone
Asset Management-Operations Areas			
OXY Permian President & General Manager: Ken Dillon	Hoúston	(713) 366-5140	(661) 333-9315
Operations Support Manager: Rick Callahan	Houston	(713)-215-7578	(281) 389-1141
Asset Development Manager-Jeff Simmons	Houston	(713) 366-5124	(713) 560-8073
Public Affairs: Stacey Crews	Houston	(713) 366-5304	(713) 416-8381
Original South Frantian			
Operations South-Frontier		(712) 266 5016	(712) 500 8001
RMT Lead Frontier-Barry Beresik	Houston	(713) 366-5016	(713) 560-8061
RMT Lead South-Keith Brown	Houston	(713) 366-5354	(713) 264-1114
Surface Operations Team Lead-Bill Elliott	Midland	(432) 685-5845	(432) 557-6736
Well Operations Team Lead-Leamon Hood	Midland	(432) 685-5794	(432) 634-4486
Well Servicing Team Lead-Vicki Hollub	Houston	(713) 215-7332	(713) 885-6347
WST Coord Frontier-Kirk Hobbs	Midland	(432) 685-5951	(432) 634-3890
WST Coord South-Robert Ricks	Midland	(432) 685-5821	(432) 634-8791
NM Frontier Oper Coord -Larry Sammons	Carlsbad	(575) 887-8337	(575) 390-8397
NM-South Oper Coord-Gilbert Williams	Seminole	(432) 385-2778	(806) 215-0009
NM Frontier Oper Coord - Van Barton	Carlsbad	(575) 887-8337	
Completion Specialist-Dale Redding	Hobbs	(432) 385-3206	
HES Staff & Areas of First Contact	lados fut anna filin a stàir d'arrain francha thach a na filin fili	2966687974 September 1. 18. 1841889 . 15 mappiness	in he similar anyone many many first states and
Support			· · · · · · · · · · · · · · · · · · ·
HES Manager: John Kirby	Houston	(713) 366-5460	(281) 974-9523
Environmental Engineer, Air: Peggy Waisanen	Midland	(432) 685-5673	(432) 894-1968
Administrative Assistant: Judy Browning	Midland	(432) 685 5692	(432) 661 1048
Environmental Consultant: Dennis Newman	Houston	(713) 366-5485	(713) 560-8060
Safety Éngineer: Derek Purvis	Houston	(713) 366-5932	(713) 582-1848
Pipeline Safety: Don Bales	Midland	(432) 685-5844	(432) 894-1960
HES Lead-Pete Maciula	Midland	(432) 685-5667	(432) 557-2450
HES Specialist: Eddie Gonzales	Midland	(432) 685-5929	(432) 556-6790
HES Specialist-Drilling: Robert Lovelady	Midland	(432) 685-5630	(432) 813-6332
HES Tech & Area of Responsibility			
Wasson San Andres RMT: Mark Andersen	Denver City	(806) 592-6299	(806) 215-0077
Hobbs RMT: Steve Bishop	Hobbs	(575) 397-8251	(575) 390-4784
Frontier-New Mexico: Rick Kerby	Carlsbad	(575) 887-8337	(575) 631-4972
South-New Mexico-CJ Summers	Hobbs	(575) 397-8236	(575) 390-9228

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OXY Permian Incident Reporting Phone List

Regulatory Affairs Lead-Liz Bush-Ivie Houston (713) 366-5303

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idland buston bbbs enver City velland igdell aron Ridge idland DGC – Houston DGC – Houston DGC – Houston	(432) 685-5755 (713) 366-5158 (575) 397-8251 (806) 592-6274 (806) 229-9708 (325) 573-7272 (325) 573-6341 (432) 685-5844 (713) 215-7171 (713) 366-5324 (713) 366-5039	(575).390 (806) 215- (806) 638- (325) 207- (325) 207- (432) 894- (713) 203-
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os Angeles	(310) 443-6588	(310) 710
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llas	(972) 404-3542	
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	Bureau of Land Management	Carlsbad, NM	(575) 887-6544	
	Bureau of Land Management	Hobbs, NM	(575) 393-3612	
	Bureau of Land Management	Roswell, NM	(575) 393-3612	
	Bureau of Land Management	Santa Fe, NM	(505) 988-6030	
	DOT Juisdictional Pipelines-Incident Reporting New Mexico Public Regulation Commission	Santa Fe, NM	(505) 827-3549 (505) 490-2375	
	DOT Juisdictional Pipelines-Incident Reporting Texas Railroad Commission	Austin, TX	(512) 463-6788	
	EPA Hot Line	Dallas, Texas	(214) 665-6444	1. J. J. S.
, , , 1 <u>,</u> ,	Federal OSHA, Area Office	Lubbock, Texas	(806) 472-7681	
	National Response Center	Washington, D. C.	(800) 424-8802	
	National Infrastructure Coordinator Center		(202) 282-9201	and the second
	New Mexico Air Quality Bureau	Santa Fe, NM	(505) 827-1494	
	New Mexico Oil Conservation Division	Artesia, NM	(575) 748-1283	
	New Mexico Oil Conservation Division	Hobbs, NM	(575) 393-6161	
4.5.4	New Mexico Oil Conservation Division	Santa Fe, NM	(505) 471-1068	914 9 <u>.</u>
	New Mexico OCD Environmental Bureau	Santa Fe, NM	(505) 827-7152 (505) 476-3470	
	New Mexico Environmental Department	Hobbs, NM	(575) 827-9329	
	NM State Emergency Response Center	Santa Fe, NM	(505) 827-9222	
	Railroad Commission of TX	District 8, 8A Midland, TX	(432) 684-5581	
	Texas Emergency Response Center	Austin, TX	(512) 463-7727	
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	TCEQ Water/Waste/Air	Region 7 Midland, TX	(432) 570-1359	م میں اور میں اور

NM State Emergency Response Center	Santa Fe, NM	(505) 827-9222		÷.
Railroad Commission of TX	District 8, 8A Midland, TX	(432) 684-5581		
Texas Emergency Response Center	Austin, TX	(512) 463-7727) };
TCEQ Air	Region 2 Lubbock, TX	(806) 796-3494	S. C. & S. M. Sand Song, J. P. States	1
TCEQ Water/Waste/Air	Region 7 Midland, TX	(432) 570-1359		
Medical Facilities				· · · ,
Artesia General Hospital	Artesia, NM	(575) 748-3333		Ą.
Guadalupe Medical Center	Carlsbad, NM	(575) 887-6633		
Lea Regional Hospital	Hobbs, NM	(575) 492-5000		
Medical Arts Hospital	Lamesa, TX	(806) 872-2183	where the second states of a second	бана И
Medical Center Hospital	Odessa, TX	(432) 640-4000		
Memorial Hospital	Seminole, TX	(432) 758-5811	and the second	
Midland Memorial Hospital	Midland, TX	(432) 685-1111		
Nor-Lea General Hospital	Lovington, NM	(575) 396-6611		• ,
Odessa Regional Hospital	Odessa, TX	(432) 334-8200		• • • • •
St. Mary's Hospital	Lubbock, TX	(806) 796-6000		а) ",
Union County General Hospital	Clayton, NM	(575) 374-2585		
University Medical Center	Lubbock, TX	(806) 743-3111		

	University Medical Center	Lubbock, TX	(806) 743-3111	
	Local Emergency Planning Comm.			
	Richard H. Dolgener	Andrews County, TX	(432) 524-1401	
	Joel Arnwine	Eddy County, NM	(575) 887-9511	
	County Judge Judy House	Gaines County, TX	(432) 758-5411	
	Myra Sande	Harding County, NM	(575) 673-2231	
	Jerry Reynolds	Lea County, NM	(575) 396-8600	(575) 399-2376
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Royce Creager	Loving County, TX	(432) 377-2231	
Mike Cherry	Quay County, NM	(575) 461-2476	
Della Wetsel	Union County, NM	(575) 374-8896	
Bonnie Leck	Winkler County, TX	(432) 586-6658	
Carl Whitaker	Yoakum County, TX	(806) 456-7491	<u> </u>
Law Enforcement - Sheriff			
Andrews Cty Sheriff's Department	Andrews County	(432) 523-5545	
Eddy Cty Sheriff's Department	Eddy County (Artesia)	(575) 746-2704	
Eddy Cty Sheriff's Department	Eddy County (Carlsbad)	(575) 887-7551	
Gaines Cty Sheriff's Department	Gaines County (Seminole)	(432) 758-9871	
Lea Cty Sheriff's Department	Lea County (Eunice)	(575) 384-2020	
Lea Cty Sheriff's Department	Lea County (Hobbs)	(575) 393-2515	
Lea Cty Sheriff's Department	Lea County (Lovington)	(575) 396-3611	
Union Cty Sheriff's Department	Union County (Clayton)	(505) 374-2583	
Yoakum City Sheriff's Department	Yoakum Co.	(806) 456-2377	
Law Enforcement - Police			
Andrews City Police	Andrews, TX	(432) 523-5675	in a constant of the second se
Artesia City Police	Artesia, NM	(575) 746-2704	
Carlsbad City Police	Carlsbad, NM	(575) 885-2111	
Clayton City Police	Clayton, NM	(575) 374-2504	
Denver City Police	Denver City, TX	(806) 592-3516	
Eunice City Police	Eunice, NM	(575) 394-2112	
		(575) 397-9265	
Hobbs City Police	Hobbs, NM	(575) 393-2677	
Jal City Police	Jal, NM	(575) 395-2501	
Lovington City Police	Lovington, NM	(575) 396-2811	
Seminole City Police	Seminole, TX	(432) 758-9871	
Law Enforcement - FBI			
FBI	Alburquèque, NM	(505) 224-2000	
	Midland, TX	(432) 570-0255	
Law Enforcement - DPS			
NM State Police	Artesia, NM	(575) 746-2704	
NM State Police	Carlsbad, NM	(575) 885-3137	
NM State Police	Eunice, NM	(575) 392-5588	
NM State Police	Hobbs, NM	(575) 392-5588	
NM State Police	Clayton, NM	(575) 374-2473; 911	
TX Dept of Public Safety	Andrews, TX	(432) 524-1443	
TX Dept of Public Safety	Seminole, TX	(432) 758-4041	
TX Dept of Public Safety	Yoakum County TX	(806) 456-2377	
Firefighting & Decour			

Firefighting & Rescue Amistad/Rosebud ا می دونی از می ام ایر مهر از دارد از مراجع ایل از دارد از دارد از Amistad/Rosebud, NM (505) 633-9113 · . 3.

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Andrews	Andrews, TX	(432) 523-4820 (432) 523-3111
Artesia	Artesia, NM	(575) 746-5051
Carlsbad	Carlsbad, NM	(575) 885-3125
Clayton	Clayton, NM	(575) 374-2435
Denver City	Denver City, TX	(806) 592-5426
Eunice	Eunice, NM	(575) 394-2111
Hobbs	Hobbs, NM	(575) 397-9308
Jal	Jal, NM	(575) 395-2221
Keimit	Kermit, TX	(432) 586-3468
Lovington	Lovington, NM	(575) 396-2359
Maljamar	Maljamar, NM	(575) 676-4100
Monahans	Monahans, TX	(432) 943-4343
Nara Visa	Nara Visa, NM	(575) 461-3300
Pecos	Pecos, TX	(432) 445-2421
Seminole	Seminole, TX	(432) 758-3676 (432) 758-9871
Ambulance	and the second	
Amistad/Rosebud	Amistad/Rosebud, NM	(575) 633-9113
Amistad/Rosebud Andrews Ambulance	Andrews, TX	(432) 523-5675
Amistad/Rosebud Andrews Ambulance Artesia Ambulance	Andrews, TX Artesia, NM	(432) 523-5675 (575) 746-2701
Amistad/Rosebud Andrews Ambulance Artesia Ambulance Carlsbad Ambulance	Andrews, TX Artesia, NM Carlsbad, NM	(432) 523-5675 (575) 746-2701 (575) 885-2111; 911
Amistad/Rosebud Andrews Ambulance Artesia Ambulance Carlsbad Ambulance Clayton, NM	Andrews, TX Artesia, NM Carlsbad, NM Clayton, NM	(432) 523-5675 (575) 746-2701 (575) 885-2111; 911 (575) 374-2501
Amistad/Rosebud Andrews Ambulance Artesia Ambulance Carlsbad Ambulance Clayton, NM Denver City Ambulance	Andrews, TX Artesia, NM Carlsbad, NM Clayton, NM Denver City, TX	(432) 523-5675 (575) 746-2701 (575) 885-2111; 911 (575) 374-2501 (806) 592-3516
Amistad/Rosebud Andrews Ambulance Artesia Ambulance Carlsbad Ambulance Clayton, NM Denver City Ambulance Eunice Ambulance	Andrews, TX Artesia, NM Carlsbad, NM Clayton, NM Denver City, TX Eunice, NM	(432) 523-5675 (575) 746-2701 (575) 885-2111; 911 (575) 374-2501 (806) 592-3516 (575) 394-3258
Amistad/Rosebud Andrews Ambulance Artesia Ambulance Carlsbad Ambulance Clayton, NM Denver City Ambulance Eunice Ambulance Hobbs, NM	Andrews, TX Artesia, NM Carlsbad, NM Clayton, NM Denver City, TX Eunice, NM Hobbs, NM	(432) 523-5675 (575) 746-2701 (575) 885-2111; 911 (575) 374-2501 (806) 592-3516 (575) 394-3258 (575) 397-9308
Amistad/Rosebud Andrews Ambulance Artesia Ambulance Carlsbad Ambulance Clayton, NM Denver City Ambulance Eunice Ambulance Hobbs, NM Jal, NM	Andrews, TX Artesia, NM Carlsbad, NM Clayton, NM Denver City, TX Eunice, NM Hobbs, NM Jal, NM	(432) 523-5675 (575) 746-2701 (575) 885-2111; 911 (575) 374-2501 (806) 592-3516 (575) 394-3258 (575) 397-9308 (575) 395-2501
Amistad/Rosebud Andrews Ambulance Artesia Ambulance Carlsbad Ambulance Clayton, NM Denver City Ambulance Eunice Ambulance Hobbs, NM Jal, NM Lovington Ambulance	Andrews, TX Artesia, NM Carlsbad, NM Clayton, NM Denver City, TX Eunice, NM Hobbs, NM Jal, NM Lovington, NM	(432) 523-5675 (575) 746-2701 (575) 885-2111; 911 (575) 374-2501 (806) 592-3516 (575) 394-3258 (575) 397-9308 (575) 395-2501 (575) 396-2811
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Amistad/Rosebud Andrews Ambulance Artesia Ambulance Carlsbad Ambulance Clayton, NM Denver City Ambulance Eunice Ambulance Hobbs, NM Jal, NM Lovington Ambulance	Andrews, TX Artesia, NM Carlsbad, NM Clayton, NM Denver City, TX Eunice, NM Hobbs, NM Jal, NM Lovington, NM	(432) 523-5675 (575) 746-2701 (575) 885-2111; 911 (575) 374-2501 (806) 592-3516 (575) 394-3258 (575) 394-3258 (575) 395-2501 (575) 395-2501 (575) 395-2501 (575) 396-2811 (575) 461-3300 (432) 445-4444
Amistad/Rosebud Andrews Ambulance Artesia Ambulance Carlsbad Ambulance Clayton, NM Denver City Ambulance Eunice Ambulance Hobbs, NM Jal, NM Lovington Ambulance Nara Visa, NM	Andrews, TX Artesia, NM Carlsbad, NM Clayton, NM Denver City, TX Eunice, NM Hobbs, NM Jal, NM Lovington, NM Nara Visa, NM	(432) 523-5675 (575) 746-2701 (575) 885-2111; 911 (575) 374-2501 (806) 592-3516 (575) 394-3258 (575) 394-3258 (575) 397-9308 (575) 395-2501 (575) 395-2501 (575) 396-2811 (575) 461-3300
Amistad/Rosebud Andrews Ambulance Artesia Ambulance Carlsbad Ambulance Clayton, NM Denver City Ambulance Eunice Ambulance Hobbs, NM Jal, NM Lovington Ambulance Nara Visa, NM Pecos Ambulance Seminole Ambulance	Andrews, TX Artesia, NM Carlsbad, NM Clayton, NM Denver City, TX Eunice, NM Hobbs, NM Jal, NM Lovington, NM Nara Visa, NM Pecos, TX	(432) 523-5675 (575) 746-2701 (575) 885-2111; 911 (575) 374-2501 (806) 592-3516 (575) 394-3258 (575) 394-3258 (575) 397-9308 (575) 395-2501 (575) 395-2501 (575) 396-2811 (575) 461-3300 (432) 445-4444 (432) 758-8816
Amistad/Rosebud Andrews Ambulance Artesia Ambulance Carlsbad Ambulance Clayton, NM Denver City Ambulance Eunice Ambulance Hobbs, NM Jal, NM Lovington Ambulance Nara Visa, NM Pecos Ambulance Seminole Ambulance Medical Air Ambulance Service	Andrews, TX Artesia, NM Carlsbad, NM Clayton, NM Denver City, TX Eunice, NM Hobbs, NM Jal, NM Lovington, NM Nara Visa, NM Pecos, TX Seminole, TX	(432) 523-5675 (575) 746-2701 (575) 885-2111; 911 (575) 374-2501 (806) 592-3516 (575) 394-3258 (575) 397-9308 (575) 395-2501 (575) 395-2501 (575) 396-2811 (575) 461-3300 (432) 445-4444 (432) 758-8816 (432) 758-9871
Amistad/Rosebud Andrews Ambulance Artesia Ambulance Carlsbad Ambulance Clayton, NM Denver City Ambulance Eunice Ambulance Hobbs, NM Jal, NM Lovington Ambulance Nara Visa, NM Pecos Ambulance Seminole Ambulance	Andrews, TX Artesia, NM Carlsbad, NM Clayton, NM Denver City, TX Eunice, NM Hobbs, NM Jal, NM Lovington, NM Nara Visa, NM Pecos, TX	(432) 523-5675 (575) 746-2701 (575) 885-2111; 911 (575) 374-2501 (806) 592-3516 (575) 394-3258 (575) 394-3258 (575) 397-9308 (575) 395-2501 (575) 395-2501 (575) 396-2811 (575) 461-3300 (432) 445-4444 (432) 758-8816

	San Angelo Med-Vac All Ambulance	San Angelo, TA	(800) 277-4334 * ,	and the second
	Southwest Air Ambulance Service	Stanford, TX	(800) 242-6199	
	Southwest MediVac	Snyder, TX	(800) 242-6199	
	Southwest MediVac	Hobbs, NM	(800) 242-6199	and the second sec
	Odessa Care Star	Odessa, TX	(888) 624-3571	
	NWTH Medivac	Amarillo, TX	(800) 692-1331	and the second sec
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New Mexico Drilling Daily Circulating System Inspection For Closed Loop Systems

Wellname:	Permit #:	Rig Mobe Date:	
County:		Rig Demobe Date:	

Inspection Date	Time	By Whom	Any drips or leaks from steel tanks, lines or pumps not Has any hazardous waste been contained?* Explain. disposed of in system?
			· · · · · · · · · · · · · · · · · · ·
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All circulating systems to be inspected DAILY during drilling operations. *Any leak of the steel tanks, lines or pumps shall be reported to the NMOCD and repaired within 48 hours.

Page ____ of ____

NM Daily Circulating System Inspection - Closed loop REV 0 8/4/2008

SURFACE USE PLAN OF OPERATIONS

Operator Name	OXY USA Inc.	16696
Lease Name/Number	Lost Tank 10 Federal #5	Federal Lease No. NMNM0417506
Pool Name/Number:	Lost Tank Delaware, West	96582
Surface Location:	200 FSL 250 FEL SESE (P)	Sec 3 T22S R31E NMNM0417696
Bottom Hole Location:	1536 FNL 330 FEL SENE (H)	Sec 10 T22S R31E

1. Existing Roads

- a. A copy of a USGS "Livingston Ridge, N.M." quadrangle map is attached showing the proposed location. The well location is spotted on this map, which shows the existing road system.
- b. The well was staked by Terry J. Asel, Certificate No. 15079 on 4/3/09, certified 5/14/09.
- c. Directions to Location: At the intersection of SH 128 and CR 802, go north on CR 802 for 8.6 miles. Turn right on lease road and go east for 0.2 miles, go southeast for 0.2 miles, go south for 0.20 miles. Turn left on proposed road and go southeast for 0.2 miles to location.

2. New or Reconstructed Access Roads:

- a. A new access road will be built. The access road will run approximately 840' from an existing road to the location. See Exhibit #2.
- b. The maximum width of the road will be 15'. It will be crowned and made up of 6" of rolled and compacted caliche. Water will be deflected, as necessary, to avoid accumulation and prevent surface erosion.
- c. Surface material will be native caliche. This material will be obtained from a BLM approved pit nearest in proximity to the location. The average grade will be approximately 1%.
- d. No cattle guards, grates or fence cuts will be required. No turnouts are planned.

3. Location of Existing Wells:

Existing wells within a one mile radius of the proposed well are shown on Exhibit #3.

4. Location of Existing and/or Proposed Production Facilities.

- a. In the event the well is found productive, the Lost Tank 3 tank battery would be utilized and the necessary production equipment will be installed at the well site. See proposed Production Facilities Layout diagram, Exhibit #4.
- b. If necessary, electric power poles will be set along side of the access road.
- c. All flowlines will adhere to API Standards, Exhibit #4

OPERATOR CERTIFICATION

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions that presently 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. Executed this 14th day of May, 2009.

Name: Denise Woods Denis Wood
Position: RMT Leaader
Address: 5 Greenway Plaza, Ste. 110, Houston, TX 77046
Telephone: 713-215-7154
E-mail: (optional): denise_woods@oxy.com
Company: OXY USA Inc
Field Representative (if not above signatory): Larry Sammons
Address (If different from above): 102 S. Main St., Carlsbad, NM 88220
Telephone (if different from above): 575-887-8337
E-mail (if different from above): larry sammons@oxy.com

PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME:	
LEASE NO.:	NM0417506
WELL NAME & NO.:	Lost Tank 10 Federal # 5
SURFACE HOLE FOOTAGE:	200' FSL & 250' FEL Section 3
BOTTOM HOLE FOOTAGE	1536' FNL & 330' FEL Section 10
LOCATION:	T. 22 S., R 31 E., NMPM
COUNTY:	Eddy County, New Mexico

TABLE OF CONTENTS

Standard Conditions of Approval (COA) apply to this APD. If any deviations to these standards exist or special COAs are required, the section with the deviation or requirement will be checked below.

Permit Expiration

Archaeology, Paleontology, and Historical Sites

] Noxious Weeds

Special Requirements

Lesser Prairie Chicken

Ground-level Abandoned Well Marker

Construction

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I. GENERAL PROVISIONS

The approval of the Application For Permit To Drill (APD) is in compliance with all applicable laws and regulations: 43 Code of Federal Regulations 3160, the lease terms, Onshore Oil and Gas Orders, Notices To Lessees, New Mexico Oil Conservation Division (NMOCD) Rules, National Historical Preservation Act As Amended, and instructions and orders of the Authorized Officer. Any request for a variance shall be submitted to the Authorized Officer on Form 3160-5, Sundry Notices and Report on Wells.

II. PERMIT EXPIRATION

If the permit terminates prior to drilling and drilling cannot be commenced within 60 days after expiration, an operator is required to submit Form 3160-5', Sundry Notices and Reports on Wells, requesting surface reclamation requirements for any surface disturbance. However, if the operator will be able to initiate drilling within 60 days after the expiration of the permit, the operator must have set the conductor pipe in order to allow for an extension of 60 days beyond the expiration date of the APD. (Filing of a Sundry Notice is required for this 60 day extension.)

III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

Any cultural and/or paleontological resource discovered by the operator or by any person working on the operator's behalf shall immediately report such findings to the Authorized Officer. The operator is fully accountable for the actions of their contractors and subcontractors. The operator shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery shall be made by the Authorized Officer to determine the appropriate actions that shall be required to prevent the loss of significant cultural or scientific values of the discovery. The operator shall be held responsible for the cost of the proper mitigation measures that the Authorized Officer assesses after consultation with the operator on the evaluation and decisions of the discovery. Any unauthorized collection or disturbance of cultural or paleontological resources may result in a shutdown order by the Authorized Officer.

IV. NOXIOUS WEEDS

The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, pads, associated pipeline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

V. SPECIAL REQUIREMENT(S) Lesser Praire Chicken Timing Stipulations and Low Profile well marker

Timing Limitation Stipulation/Condition of Approval for Lesser Prairie-Chicken: Oil and gas activities including 3-D geophysical exploration, and drilling will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities, geophysical exploration other than 3-D operations, and pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Additionally, no new drilling will be allowed within up to 200 meters of leks known at the time of permitting. Normal vehicle use on existing roads will not be restricted. Exhaust noise from pump jack engines must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 ft. from the source of the noise.

Ground-level Abandoned Well Marker to avoid raptor perching: Upon the plugging and subsequent abandonment of the well, the well marker will be installed at ground level on a plate containing the pertinent information for the plugged well. For more installation details, contact the Carlsbad Field Office at 575-234-5972.

VI. CONSTRUCTION

A. NOTIFICATION

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Carlsbad Field Office at (575) 234-5972 at least 3 working days prior to commencing construction of the access road and/or well pad.

When construction operations are being conducted on this well, the operator shall have the approved APD and Conditions of Approval (COA) on the well site and they shall be made available upon request by the Authorized Officer.

B. TOPSOIL

The operator shall stockpile the topsoil of the well pad. The topsoil shall not be used to backfill the reserve pit and will be used for interim and final reclamation.

C. Closed Loop System

Closed Loop System V-Door East

Tanks are required for drilling operations: No Pits.

The operator shall properly dispose of drilling contents at an authorized disposal site.

D. FEDERAL MINERAL MATERIALS PIT

If the operator elects to surface the access road and/or well pad, mineral materials extracted during construction of the reserve pit may be used for surfacing the well pad and access road and other facilities on the lease.

Payment shall be made to the BLM prior to removal of any additional federal mineral materials from any site other than the reserve pit. Call the Carlsbad Field Office at (575) 234-5972.

E. WELL PAD SURFACING

Surfacing of the well pad is not required.

If the operator elects to surface the well pad, the surfacing material may be required to be removed at the time of reclamation.

The well pad shall be constructed in a manner which creates the smallest possible surface disturbance, consistent with safety and operational needs.

F. ON LEASE ACCESS ROADS

Road Width

The access road shall have a driving surface that creates the smallest possible surface disturbance and does not exceed fourteen (14) feet in width. The maximum width of surface disturbance, when constructing the access road, shall not exceed thirty (30) feet.

Surfacing

Surfacing material is not required on the new access road driving surface. If the operator elects to surface the new access road or pad, the surfacing material may be required to be removed at the time of reclamation.

Where possible, no improvements should be made on the unsurfaced access road other than to remove vegetation as necessary, road irregularities, safety issues, or to fill low areas that may sustain standing water.

The Authorized Officer reserves the right to require surfacing of any portion of the access road at any time deemed necessary. Surfacing may be required in the event the road deteriorates, erodes, road traffic increases, or it is determined to be beneficial for future field development. The surfacing depth and type of material will be determined at the time of notification.

Crowning

Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2% (i.e., a 1" crown on a 14' wide road). The road shall conform to Figure 1; cross section and plans for typical road construction.

Ditching

Ditching shall be required on both sides of the road.

Turnouts

Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall be constructed on all blind curves. Turnouts shall conform to the following diagram:



Drainage

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outsloping and insloping, lead-off ditches, culvert installation, and low water crossings).

A typical lead-off ditch has a minimum depth of 1 foot below and a berm of 6 inches above natural ground level. The berm shall be on the down-slope side of the lead-off ditch.

Cross Section of a Typical Lead-off Ditch



All lead-off ditches shall be graded to drain water with a 1 percent minimum to 3 percent maximum ditch slope. The spacing interval are variable for lead-off ditches and shall be determined according to the formula for spacing intervals of lead-off ditches, but may be amended depending upon existing soil types and centerline road slope (in %);

Formula for Spacing Interval of Lead-off Ditches

Example - On a 4% road slope that is 400 feet long, the water flow shall drain water into a lead-off ditch. Spacing interval shall be determined by the following formula:

400 foot road with 4% road slope: 400' + 100' = 200' lead-off ditch interval 4%

Culvert Installations

Appropriately sized culvert(s) shall be installed at the deep waterway channel flow crossing.

Cattleguards

An appropriately sized cattleguard(s) sufficient to carry out the project shall be installed and maintained at fence crossing(s).

Any existing cattleguard(s) on the access road shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattleguard(s) that are in place and are utilized during lease operations.

A gate shall be constructed and fastened securely to H-braces.

Fence Requirement

Where entry is required across a fence line, the fence shall be braced and tied off on both sides of the passageway prior to cutting.

The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fence(s).

Public Access

Public access on this road shall not be restricted by the operator without specific written approval granted by the Authorized Officer.



Figure 1 – Cross Sections and Plans For Typical Road Sections

VII. DRILLING

A. DRILLING OPERATIONS REQUIREMENTS

The BLM is to be notified a minimum of 4 hours in advance for a representative to witness:

- a. Spudding well
- b. Setting and/or Cementing of all casing strings
- c. BOPE tests

Eddy County Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822

- 1. Although Hydrogen Sulfide has not been reported in this section, it is always a potential hazard. If Hydrogen Sulfide is encountered, please report measured amounts and formations to the BLM.
- 2. 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.
- 3. 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 is located, this does not include the dog house or stairway area.
- 4. The record of the drilling rate along with the CAL/GR/N well log run from TD. to surface will be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. The Rustler top and top and bottom of Salt is to be recorded on the Completion Report.

B. CASING

Changes to the approved APD casing and cement program require submitting a sundry and receiving approval prior to work. Failure to obtain approval prior to work will result in an Incident of Non-Compliance being issued.

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

Wait on cement (WOC) time for a primary cement job will be a minimum 18 hours for a water basin, 24 hours in the potash area, or 500 pounds compressive strength, whichever is greater for all casing strings. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. See individual casing strings for details regarding lead cement slurry requirements.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

R-111-P Potash / WIPP

Possible lost circulation in the Delaware and Bone Spring formations. Possible water and brine flows in the Salado and Castile Groups.

- 1. The 11-3/4 inch surface casing shall be set at approximately 680 feet (a minimum of 25 feet into the Rustler Anhydrite and above the salt) and cemented to the surface. If the salt is encountered at a shallower depth, the casing is to be set a minimum of 25 feet above the salt.
 - 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.
 - b. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The minimum required fill of cement behind the 8-5/8 inch intermediate casing is: The intermediate should be set at approximately 4100 feet in the Fletcher Anhydrite or Lamar Limestone, 100 to 600 feet below the base of the salt.

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 potash concerns.

DV tool to be a run a minimum of 50 feet below the intermediate casing shoe.

- 3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - a. First stage to DV tool, cement shall:
 - Cement to circulate. If cement does not circulate, contact the appropriate BLM office, before proceeding with second stage cement job.
 - b. Second stage above DV tool, cement shall:

Cement to surface. If cement does not circulate, contact the appropriate BLM office.

- 4. 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.
- 5. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

C. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 2. Variance approved to use flex line from BOP to choke manifold. Check condition of 3" 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.
- 3. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 3000 (3M) psi.
 ^{*} Operator is using a 5M system but testing as a 3M.
- 4. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. The tests shall be done by an independent service company.
 - b. The results of the test shall be reported to the appropriate BLM office.
 - c. 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.

- d. 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.
- e. Effective November 1, 2008, no variances will be granted on reduced pressure tests on the surface casing and BOP/BOPE. Onshore Order 2 requirements will be in effect.

D. DRILL STEM TEST

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

E. WIPP Requirements

The proposed well is located over 330' from the WIPP Land Withdrawal Area boundary. As a result, OXY USA Inc. is requested, but not required to submit daily logs and deviation survey information to the Department of Energy. Any future entry into the well for purposes of completing additional drilling will require supplemental information.

OXY USA Inc. can email the required information to Ms. Susan McCauslin at <u>susan.mccauslin@wipp.ws</u> or fax to her attention at 575-234-6003.

RGH 080809

VIII. PRODUCTION (POST DRILLING)

A. WELL STRUCTURES & FACILITIES

Placement of Production Facilities

Production facilities should be placed on the well pad to allow for maximum interim recontouring and revegetation of the well location.

Containment Structures

The containment structure shall be constructed to hold the capacity of the entire contents of the largest tank, plus 24 hour production, unless more stringent protective requirements are deemed necessary by the Authorized Officer.

Painting Requirement

All above-ground structures including meter housing that are not subject to safety requirements shall be painted a flat non-reflective paint color Shale Green, Munsell Soil Color Chart # 5Y 4/2

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B. PIPELINES

STANDARD STIPULATIONS FOR SURFACE INSTALLED PIPELINES

A copy of the APD and attachments, including stipulations, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

1. The holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.

2. The holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 <u>et seq</u>. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.

3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, <u>et seq</u>. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, <u>et seq</u>.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to activity of the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.

4. The holder shall be liable for damage or injury to the United States to the extent provided by 43 CFR Sec. 2883.1-4. The holder shall be held to a standard of strict liability for damage or injury to the United States resulting from pipe rupture, fire, or spills caused or substantially aggravated by any of the following within the right-of-way or permit area:

b.

a. Activities of the holder including, but not limited to construction, operation, maintenance, and termination of the facility.

Activities of other parties including, but not limited to:

- (1) Land clearing.
- (2) Earth-disturbing and earth-moving work.
- (3) Blasting.
- (4) Vandalism and sabotage.

c. Acts of God.

The maximum limitation for such strict liability damages shall not exceed one million dollars (\$1,000,000) for any one event, and any liability in excess of such amount shall be determined by the ordinary rules of negligence of the jurisdiction in which the damage or injury occurred.

This section shall not impose strict liability for damage or injury resulting primarily from an act of war or from the negligent acts or omissions of the United States.

5. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil, salt water, or other pollutant should be discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil, salt water, or other pollutant, wherever found, shall be the responsibility of the holder, regardless of fault. Upon failure of the holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he deems necessary to control and clean up the discharge and restore the area, including, where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of the holder. Such action by the Authorized Officer shall not relieve the holder of any responsibility as provided herein.

6. All construction and maintenance activity will be confined to the authorized right-ofway width of 25 feet.

7. No blading or clearing of any vegetation will be allowed unless approved in writing by the Authorized Officer.

8. The holder shall install the pipeline on the surface in such a manner that will minimize suspension of the pipeline across low areas in the terrain. In hummocky of duney areas, the pipeline will be "snaked" around hummocks and dunes rather then suspended across these features.

9. The pipeline shall be buried with a minimum of <u>24</u> inches under all roads,

"two-tracks," and trails. Burial of the pipe will continue for 20 feet on each side of each crossing. The condition of the road, upon completion of construction, shall be returned to at least its former state with no bumps or dips remaining in the road surface.

10. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.

11. In those areas where erosion control structures are required to stabilize soil conditions, the holder will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.

12. Excluding the pipe, all above-ground structures not subject to safety requirement shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be a color which simulates "Standard Environmental Colors" – **Shale Green**, Munsell Soil Color No. 5Y 4/2; designated by the Rocky Mountain Five State Interagency Committee.

13. The pipeline will be identified by signs at the point of origin and completion of the right-of-way and at all road crossings. At a minimum, signs will state the holder's name, BLM serial number, and the product being transported. Signs will be maintained in a legible condition for the life of the pipeline.

14. The holder shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the holder. The holder will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway.

15. Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the authorized officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the authorized officer. An evaluation of the discovery will be made by the authorized officer to determine appropriate cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the authorized officer after consulting with the holder.

(March 1989)

C. ELECTRIC LINES

STANDARD STIPULATIONS FOR OVERHEAD ELECTRIC DISTRIBUTION LINES

A copy of the APD and attachments, including stipulations, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

1. The holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.

2. The holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 <u>et seq</u>. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.

3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, <u>et seq</u>. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, <u>et seq</u>.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.

4. There will be no clearing or blading of the right-of-way unless otherwise agreed to in writing by the Authorized Officer.

5. Powerlines shall be constructed in accordance to standards outlined in "Suggested Practices for Raptor Protection on Powerlines, " Raptor Research Foundation, Inc., 1981. The holder shall assume the burden and expense of proving that pole designs not shown in the above publication are "raptor safe." Such proof shall be provided by a raptor expert approved by the Authorized Officer. The BLM reserves the right to require

modification or additions to all powerline structures placed on this right-of-way, should they be necessary to ensure the safety of large perching birds. Such modifications and/or additions shall be made by the holder without liability or expense to the United States.

6. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting the fence. No permanent gates will be allowed unless approved by the Authorized Officer.

7. The BLM serial number assigned to this authorization shall be posted in a permanent, conspicuous manner where the power line crosses roads and at all serviced facilities. Numbers will be at least two inches high and will be affixed to the pole nearest the road crossing and at the facilities served.

8. Upon cancellation, relinquishment, or expiration of this grant, the holder shall comply with those abandonment procedures as prescribed by the Authorized Officer.

9. All surface structures (poles, lines, transformers, etc.) shall be removed within 180 days of abandonment, relinquishment, or termination of use of the serviced facility or facilities or within 180 days of abandonment, relinquishment, cancellation, or expiration of this grant, whichever comes first. This will not apply where the power line extends service to an active, adjoining facility or facilities.

10. Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the Authorized Officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

11. Special Stipulations:

• For reclamation remove poles, lines, transformer, etc. and dispose of properly.

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- Fill in any holes from the poles removed.
- See attached reclamation plans.

IX. INTERIM RECLAMATION & RESERVE PIT CLOSURE

A. INTERIM RECLAMATION

If the well is a producer, interim reclamation shall be conducted on the well site in accordance with the orders of the Authorized Officer. The operator shall submit a Sundry Notices and Reports on Wells (Notice of Intent), Form 3160-5, prior to conducting interim reclamation.

During the life of the development, all disturbed areas not needed for active support of production operations should undergo interim reclamation in order to minimize the environmental impacts of development on other resources and uses.

The operators should work with BLM surface management specialists to devise the best strategies to reduce the size of the location. Any reductions should allow for remedial well operations, as well as safe and efficient removal of oil and gas.

During reclamation, the removal of caliche is important to increasing the success of revegetating the site. Removed caliche may be used for road repairs, fire walls or for building other roads and locations. In order to operate the well or complete workover operations, it may be necessary to drive, park and operate on restored interim vegetation within the previously disturbed area. Disturbing revegetated areas for production or workover operations will be allowed. If there is significant disturbance and loss of vegetation, the area will need to be revegetated. Communicate with the appropriate BLM office for any exceptions/exemptions if needed.

Seed Mixture for LPC Sand/Shinnery Sites

The holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be <u>no</u> primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law(s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the authorized officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding. Species to be planted in pounds of pure live seed* per acre:

Species	lb/acre	
Plains Brist Sand Bluest Little Blues Big Blueste Plains Core Sand Drops	tem tem m opsis	51bs/A 51bs/A 31bs/A 61bs/A 21bs/A 11bs/A

**Four-winged Saltbush

5lbs/A

* This can be used around well pads and other areas where caliche cannot be removed.

*Pounds of pure live seed:

Pounds of seed \mathbf{x} percent purity \mathbf{x} percent germination = pounds pure live seed

X. FINAL ABANDONMENT & REHABILITATION REQUIREMENTS

Upon abandonment of the well and/or when the access road is no longer in service the Authorized Officer shall issue instructions and/or orders for surface reclamation and restoration of all disturbed areas.

Ground-level Abandoned Well Marker to avoid raptor perching: Upon the plugging and subsequent abandonment of the well, the well marker will be installed at ground level on a plate containing the pertinent information for the plugged well.

On private surface/federal mineral estate land the reclamation procedures on the road and well pad shall be accomplished in accordance with the private surface land owner agreement.