District 1
1625 N. French Dr., Hobbs, NM 88240
Phanes: (375) 393-6161 Pas: (375) 393-0720
District II.
811 S. First St., Artesia, NM 88210
Phone: (375) 748-1283 Fas: (575) 748-9720
District III.

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

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

WO# 151013WL-a (Rev. A) (KA)

	Road, Aztoc, NM 8741 6178 Fax: (505) 334-6				St. Francis					District Office
District IV 1220 S. St. Francis	61 /8 Pax: (303) 334-6 is Dr., Santa Fe, NM 87 3460 Fax: (503) 470-3	875Q5		Santa Fe	e, NM 87505	,			AMEN	VDED REPORT
· · · · · ·	* PF 3		LL LOCATI		CREAGE D	EDICATIO				
	API Numb 15- 43		964-	1 Code 73	Pierc	e Crossi	Pool Name	e Son	ing	Fast_
Prope	env Code 370				perty Name	'ATE				Vell Number 3H
	<u>ジ.</u> イン RID No.			Ope	rator Name					Elevation
1924	163	1			USA WIF	· LP			30	003.2'
fit or lot no	10	T	Donge		Location	The state of the s	1 The Same than	r01/		1
UL or lot no.	1 1	Township SOUTH	Range 29 EAST, N.		t Idn Feet from the	North/South line	Feet from the 595'	East/We WES		County EDDY
·			Bottom Ho	le Location	If Different I	From Surfac	ie:		1	<u> </u>
UL or lot no.	1 1	Township	Range	Lot	Idn Feet from the	North/South line	Feet from the	East/We		County
М	J		29 EAST, N.		180'	SOUTH	440'	WES	3 <i>T</i>	EDDY
Dedicated		intor Infill Co.	onsolidation Code	Order No.						
No allowa	=		is completion ut	ntil all interests	have been con	solidated or a	non-standard	l unit has l	been appı	roved by the
division. 50										·
442	25 12	₹	3				0	PERATOR (CERTIFICA	ATION
344233	The sail	NEW MED	FF POINT DICO EAST 1927							nd herein is true and
595	W//	Y=424409 X=614974	9.87 US FT	2	E L	1	· ·	the bast of my kno n either owns a wa	_	hef, and shat this or sorkeased mineral
	1 111	LONG: W I	32.1662740° 103.9617719°	<u> </u>		I			_	er sesteased mineral ettom kola location or
	4\[`	GRID AZ	= 339°43'06" (1.83'		ı					WYSHER TO 3 CONTRACT
+		SURFACE	LOCATION					er of such a niner	-	
		NEW MED	XICO EAST	 -			l	poling agreement of		paoling order
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		NAD NAD	1927 9.87 US FT 4.02 US FT		1		devi	<u>i_ste</u> c	vente	oxy.com
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LEGINO I	TITI).	NEW MEX	XICO EAST				made by	hand what in	my superviol	and that the
(%) (%) (%) (%) (%) (%) (%) (%)	11111	- 🚫 LAT.: N 33	0.07 US FT 3.11 US FT 32.1527772		!		same is i	S corre	15079)	u l
CRID		LONG.: W	103.9618298				77.75	O ET QBER		01
HILLING THE PROJECT AREA HILLING THE PRODUCING AREA		<u> </u>					Date of Signature	and School		AND
		1	· · · · · · · · · · · · · · · · · · ·		 		<i>Profession</i>	asi Surveyor	SSIONAL	
		NEW MEX	DLE LOCATION XICO EAST					- /	1/	1,,
440		X=419340	1927 0.08 US FT 3.08 US FT		1		Sa	my Chi	Chel	11/13/2015
140	द्धीयात्र,	LONG.: W 1	2.1523374° 103.9618317		ı		Certificati	e flugaties		15079 *

1. Geologic Formations

TVD of target	8869'	Pilot Hole Depth	N/A
MD at TD:	13563'	Deepest Expected fresh water:	308'

Delaware Basin

Formation	TVD - RKB	Expected Fluids
Rustler	308	
Salado	879	
Lamar/Delaware	3133	Oil/Gas
Bell Canyon*	3167	Water/Oil/Gas
Cherry Canyon*	3869	Oil/Gas
Brushy Canyon*	5269	Oil/Gas
1st Bone Spring	6838	Oil/Gas
2nd Bone Spring	8126	Oil/Gas
2nd Bone Spring Target	8838	Oil/Gas

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

2. Casing Program

	Casing Interval		Csg. Size Weight	C1-	C	SF	CE D.	SF	
Hole Size (in)	From (ft)	To (ft)	(in)	(lbs) [*]	Grade Conn.		Collapse	SF Burst	Tension
14.75	0	400	10.75	40.5	J55	BTC	7.6	1.54	2.89
9.875	0	6926	7.625	26.4	L80	BTC	1.19	1.29	1.88
9.875	6926	8226	7.625	29.7	L80	ВТС	1.13	1.43	3.43
6.75	8126	13563	5.5	17	P-110	UltraSF	1.62	1.2	2.3
				BLM Minimum Safety Factor			1.125	1.2	1.6 Dry 1.8 Wet

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h *Oxy requests the option to set casing shallower yet still below the salts if losses or hole conditions require this. Cement volumes may be adjusted if casing is set shallower and a DV tool will be run in case a contingency second stage is required for cement to reach surface. If cement circulated to surface during first stage we will drop a cancelation cone and not pump the second stage.

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	Y
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	\
Is well within the designated 4 string boundary.	
	1

Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back	
500' into previous casing?	
	<u> </u>
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
a	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

3. Cementing Program

Casing	# Sks	Wt. lb/	Yld ft3/ sack	H20 gal/sk	500# Comp. Strength (hours)	Slurry Description
Surface	265	14.8	1.35	6.53	6:50	Premium Plus Cement 2% Calcium Chloride - Flake (Accelerator)
Production	712	10.2	3.05	15.63	15:07	TUNED LIGHT (TM) SYSTEM 0.80% HR-601(Retarder), 3 lbm/sk Kol-Seal (Lost Circulation Additive), 0.125 lbm/sk Poly-E-Flake (Lost Circulation Additive)
Casing	367	13.2	1.65	8.45	12:57	Super H Cement, 0.1 % HR-800 (Retarder), 0.5 % Halad(R)-344 (Low Fluid Loss Control), 0.3 % CFR-3 (Dispersant), 2 lbm Kol-Seal (Lost Circulation Additive), 3 lbm Salt (Salt)
DV/ECP Tool (֎ 3183' (We	request the	option to cance	the secon	d stage if cement is c	irculated to surface during the first stage of cement operations)
2nd Stage	515	12.9	1.85	9.86	12:44	Halliburton Light Premium Plus Cement with 5% Salt (Accelerator), 0.125 lbs/sk Poly-E-Flake (Lost Circulation Additive), 5 lbs/sk Kol-Seal (Lost Circulation Additive), 0.35% HR-800 (Retarder)
`	182	14.8	1.33	6.34	6:31	Premium Plus cement
Production Liner	324	13.2	1.631	8.37	15:15	Super H Cement, 0.1 % HR-800 (Retarder), 0.5 % Halad(R)-344 (Low Fluid Loss Control), 0.4 % CFR-3 (Dispersant), 3 lbm Salt (Salt)

Casing String	TOC (ft)	% Excess Lead	% Excess Tail
Surface	0		50%
Production Casing	0	75%	20%
2nd Stage Prodution Casing	0	75%	125%
Production Liner	8126		15%

4. Pressure Control Equipment

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type		Tested to:
WHICH HOLE.	<u>,</u>	5M	Annular	√	70% of working pressure
0.975"	13-5/8"		Blind Ram	✓	
9.875" Intermediate			Pipe Ram		250/5000:
Intermediate			Double Ram	✓	250/5000psi
			Other*		

^{*}Specify if additional ram is utilized.

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

Formation integrity test will be performed per Onshore Order #2.

On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.

A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.

Y Are anchors required by manufacturer?

A multibowl wellhead is being used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested.

See attached schematic.

We are proposing that we will run the wellhead through the rotary prior to cementing surface casing as discussed with the BLM on October 8, 2015.

5. Mud Program

Depth From (ft) To (ft)		T	W-:-b4 ()	¥72 24	Water Loss	
		Type	Weight (ppg)	Viscosity		
0	400	EnerSeal (MMH)	8.4-8.6	40-60	N/C	
400	3183	Brine	9.8-10.0	35-45	N/C	
3183	8226	EnerSeal (MMH)	8.8-9.6	38-50	N/C	
8226	13563	Oil-Based Mud	10.0-12.0	35-50	N/C	

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

Oxy proposes to drill out the 10.75" surface casing shoe with a saturated brine system from 400' - 3183', which is the base of the salt system. At this point we will swap fluid systems to a high viscosity mixed metal hydroxide system. We will drill with this system to the intermediate TD @ 8226'.

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

6. Logging and Testing Procedures

Logg	ing, Coring and Testin	ng.						
Yes	Will run GR from TD to surface (horizontal well – vertical portion of hole). Stated logs							
	run will be in the Con	run will be in the Completion Report and submitted to the BLM.						
No	Logs are planned base	ed on well control or offset log informa	tion.					
No	Drill stem test? If yes	s, explain						
No								
Addi	tional logs planned	Interval						
No	Resistivity							
No	Density							
No	CBL	1						
Yes	Mud log	Surface Shoe - TD						
No	PEX							

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	4107 psi
Abnormal Temperature	No

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

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

L	value	es and formations will be provided to the BLM.
ſ	N	H2S is present
ſ	Y	H2S Plan attached

8. Other facets of operation

	Yes/No
 Will the well be drilled with a walking/skidding operation? If yes, describe. We plan to drill the two well pad in batch by section: all surface sections, intermediate sections and production sections. The wellhead will be secured with a night cap whenever the rig is not over the well. 	Yes
Will more than one drilling rig be used for drilling operations? If yes, describe.	No

Attachments

- _x__ Directional Plan
- _x__ H2S Contingency Plan
- _x__ Flex III Attachments

9. Company Personnel

Name	<u>Title</u>	Office Phone	Mobile Phone
Ludwing Franco	Drilling Engineer	713-366-5174	832-523-6392
Tim Barnard	Drilling Engineer Team Lead	713-366-5706	281-740-3084
Amrut Athavale	Drilling Engineer Supervisor	713-350-4747	281-740-4448
Simon Benavides	Drilling Superintendent	713-522-8652	281-684 - 6897
Angie Contreras	Drilling & Completions Manager	713-497-2012	832-605-4882
Daniel Holderman	Drilling Manager	713-497-2006	832-525-9029

Plan - Rev0

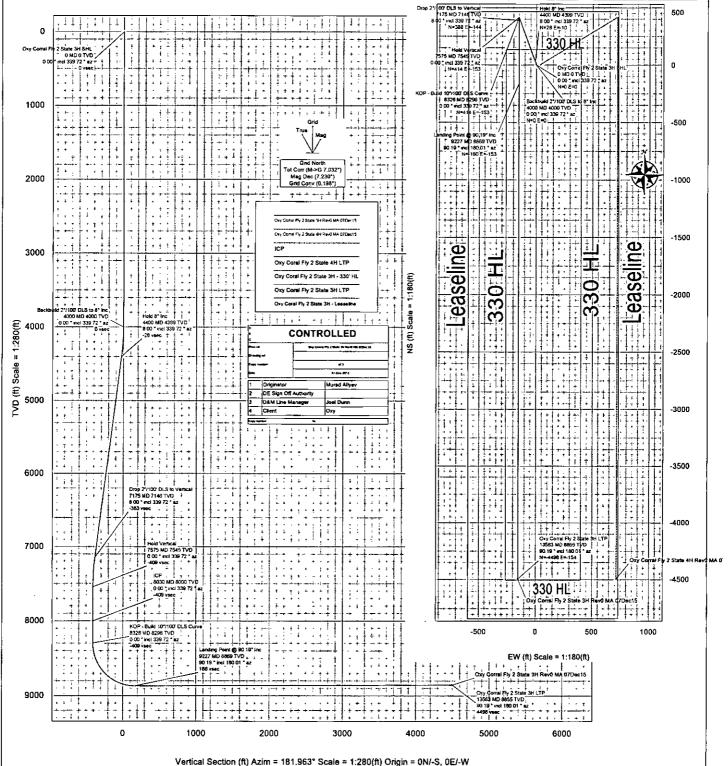
OXY

RKB 26.5'

Schlumberger



						Critical	Points								
Comments	Survey MD(ft)	Inclination(deg)	Azimuth(deg)	TVD(ft)	Sub-Sea TVD	VS(h)	NS(ft)	EW(ft)	Lati	lude(deg)	Longitude(deg)	Easting(ftUS)	Northing(ftUS)	DLS(1/100ft)	Tool Face(deg)
Oxy Corral Fly 2 State 3H SHL	0.00	0.00	339.72	0.00	-3029.70	0.00	0.00	0.00	N 32	9 54 480	W 103 57 40.614	615127.22	423995 44		339.72
Backbuild 2º/100' DLS to 8º Inc	4000 00	0.00	339 72	4000.00	970 30	0.00	0.00	0.00	N 32	9 54 480	W 103 57 40 614	615127.22	423995 44	0.00	339.72
Hold 8" Inc	4399 95	8.00	339 72	4398 65	1368 95	-25 80	26 14	-9 66	N 32	9 54.739	W 103 57 40 725	615117.56	424021 58	2.00	339.72
Drop 21/100 DLS to Vertical	7174 65	8 00	339 72	7146.35	4116.65	-383.17	388 32	-143.50	N 32	9 58.328	W 103 57 42 268	614983.73	424383.73	0.00	339.72
Hold Vertical	7574 59	0.00	339.72	7545 00	4515 30	-408 97	414 45	-153 16	N 32	9 58.587	W 103 57 42 379	614974 07	424409 87	2.00	339.72
/ICP	B029 59	0 00	339 72	8000 00	4970 30	-408 97	414 46	-153_16	N 32	9 58 587	W 103 57 42 379	514974 07	424409 87	0 00	339.72
KOP - Build 10"/100" DLS Curve	B325 59	0.00	339.72	B296 00	5266 30	-408 97	414 45	-153.16	N 32	9 58 587	W 103 57 42 379	614974 07	424409 87	0.00	180 01
Landing Point @ 90.19* inc	9227.48	90.19	180 01	8868 95	5839 25	165 54	-160 38	-153 27	N 32	9 52 898	W 103 57 42 403	614973 96	423835 07	10 00	0.00
Oxy Corral Fty 2 State 3H LTP	13562 B4	90 19	180 01	8854.70	5825 00	4498 36	-4495.72	-154 12	N 32	9 9 998	W 193 57 42.587	614973.11	419500 07	0.00	



Schlumberger

Oxy Corral Fly 2 State 3H Rev0 MA 07Dec15 Proposal Geodetic Report



(Non-Def Plan)

Report Date: Client: December 07, 2015 - 03:14 PM OXY

Field: NM Eddy County (NAD 27)

Well: Oxy Corral Fly 2 State 3H
Oxy Corral Fly 2 State 3H

Well: Oxy Corral Fly 2 Sta
Borehole: Original Borehole
UWI / API#: Unknown / Unknown

 UWI / API#:
 Unknown / Unknown

 Survey Name:
 Oxy Corrat Fly 2 State 3H Rev0 MA 07Dec15

Survey Date: December 07, 2015
Tort / AHD / DDI / ERD Ratio: 106.186 ° / 5352.039

Tort / AHD / DDI / ERD Ratio: 106.186 ° / 5352.039 ft / 5,939 / 0,603
Coordinate Reference System: NAD27 New Mexico State Plane, Eastern Zone, US Feet

Location Lat / Long: N 32° 9' 54 48003', W 103° 57' 40.61992'
Location Grid NE Y/X: N 423995.440 ftUS, E 615127 220 ftUS

 CRS Grid Convergence Angle:
 0.1981 °

 Grid Scale Factor:
 0.99992427

 Version / Patch:
 2.8.572.0

Survey / DLS Computation: Vertical Section Azimuth; Vertical Section Origin: TVD Reference Datum: TVD Reference Elevation; Seabed / Ground Elevation;

Magnetic Declination: Total Gravity Field Strength: Gravity Model: Total Magnetic Field Strength:

I otal Magnetic Free Greeny.
Magnetic Dip Angle:
Declination Date:
Magnetic Declination Model:
North Reference:
Grid Convergence Used:
Total Corr Mag North->Grid

North: Local Coord Referenced To: Minimum Curvature / Lubinski 181.963 ° (Grid North) 0.000 ft, 0.000 ft RKB

3029,700 ft above MSL 3003,200 ft above MSL 7,230 °

998.4587mgn (9.80665 Based)

GARM 48266 024 nT 60,000 °

December 07, 2015 HDGM 2015 Grid North 0.1981 *

Structure Reference Point

					Loca	i Coord Referenc	ed To; Str	ucture Reference	Point			
Comments	MD (ft)	Inct (*)	Azim Grid	TVD (ft)	VSEC (ft)	NS (ff)	EW (ft)	DLS ('/100ft)	Northing (ftUS)	Easting (hUS)	Latitude (N/S * ' ")	Longitude (E/W * ' *)
Oxy Corral Fly 2 State 3H SHL	0.00	0.00	339.72	0.00	0.00	0.00	0.00	N/A	423995.44	615127.22	N 32 9 54.48 V	V 103 57 40.61
Sittle 317 GITE	100 00	0.00	339.72	100.00	0.00	0.00	0.00	0.00	423995.44	615127.22	N 32 9 54.48 V	V 103 57 40.61
	200.00	0.00	339.72	200 00	0.00	0 00	0.00	0.00	423995,44		N 32 9 54 48 V	
	300 00	0,00	339,72	300.00	0.00	0.00	0.00	0.00	423995 44		N 32 9 54.48 V	
	400.00	0.00	339.72	400.00	0.00	0 00	0.00	0.00	423995.44		N 32 9 54 48 V	
	500.00 600.00	0.00 0.00	339 72 339.72	500.00 600.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	423995.44 423995.44		N 32 9 54.48 V N 32 9 54 48 V	
	700.00	0.00	339.72	700.00	0.00	0.00	0.00	0.00	423995.44		N 32 9 54.48 V	
	800 00	0.00	339.72	800.00	0.00	0.00	0.00	0.00	423995.44		N 32 95448 V	
	900 00	0 00	339.72	900 00	0 00	0.00	0.00	0.00	423995.44	615127.22	N 32 9 54.48 V	V 103 57 40 61
	1000.00	0 00	339.72	1000.00	0.00	0.00	0.00	0 00	423995.44		N 32 9 54.48 V	
	1100.00 1200.00	0.00 0.00	339.72 339,72	1100 00 1200,00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	423995.44 423995.44		N 32 9 54.48 V N 32 9 54.48 V	
	1300.00	0.00	339.72	1200.00	0.00	0.00	0.00	0.00	423995 44 423995 44		N 32 954.48 V	
	1400.00	0.00	339.72	1400 00	0.00	0.00	0.00	0.00	423995 44	615127.22	N 32 9 54.48 V	
	1500 00	0.00	339.72	1500.00	0.00	0.00	0.00	0.00	423995 44	615127,22	N 32 9 54 48 V	
	1600 00	0.00	339.72	1600 00	0 00	0.00	0.00	0 00	423995.44	615127.22	N 32 9 54.48 V	V 103 57 40 61
	1700.00	0.00	339.72	1700.00	0.00	0.00	0.00	0.00	423995 44	615127.22	N 32 9 54 48 V	
	1800.00	000	339.72	1800.00	0.00	0.00	0.00	0.00	423995,44	615127.22	N 32 954.48 V	
	1900.00 2000.00	0.00 0.00	339,72 339,72	1900.00 2000.00	0.00 0.00	0.00	0.00 0.00	0.00	423995.44 423995.44	615127.22 615127.22	N 32 9 54 48 V N 32 9 54 48 V	
	2100.00	0.00	339.72	2100.00	0.00	0.00	0.00	0.00	423995.44	615127.22	N 32 9 54 48 V	
	2200.00	0.00	339.72	2200.00	0.00	0.00	0.00	0.00	423995 44	615127 22	N 32 9 54.48 V	
	2300 00	0.00	339.72	2300.00	0 00	0 00	0.00	0 00	423995.44	615127.22	N 32 9 54.48 W	¥ 103 57 40.61
	2400 00	0.00	339.72	2400.00	0.00	0.00	0.00	0.00	423995 44	615127.22	N 32 9 54.48 W	
	2500 00	0.00 0.00	339.72	2500.00	0.00	0.00	0.00	0.00	423995,44	615127.22	N 32 9 54.48 W	
	2600.00 2700.00	0.00	339.72 339.72	2600.00 2700.00	0.00 0.00	0.00	0.00	0.00 0.00	423995.44 423995.44	615127.22 615127.22	N 32 9 54.48 W	
	2800.00	0.00	339.72	2800.00	0.00	0.00	0.00	0.00	423995.44	615127.22	N 32 9 54.48 W	
	2900.00	0.00	339.72	2900.00	0.00	0.00	0.00	0.00	423995 44		N 32 9 54.48 W	
	3000 00	0.00	339.72	3000.00	0.00	0.00	0 00	0.00	423995.44	615127.22	N 32 9 54.48 W	
	3100.00	0.00	339.72	3100.00	0.00	0.00	0.00	0.00	423995 44	615127.22	N 32 9 54.48 W	
	3200 00	0.00	339.72	3200.00	0.00	0 00	0.00	0.00	423995.44	615127.22	N 32 9 54 48 W	
	3300.00 3400.00	0 00	339.72 339.72	3300.00 3400.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00	423995.44 423995.44	615127.22 615127.22	N 32 9 54.48 W N 32 9 54.48 W	
	3500.00	000	339.72	3500.00	0.00	0.00	0.00	0.00	423995.44		N 32 9 54.48 W	
	3600 00	0.00	339 72	3600.00	0.00	0.00	0.00	0.00	423995.44		N 32 9 54,48 W	
	3700 00	0 00	339 72	3700.00	0.00	0.00	0.00	0.00	423995.44		N 32 9 54.48 W	
	3800 00	0.00	339 72	3800.00	0.00	0 00	0.00	0 00	423995.44		N 32 9 54 48 W	
B 11 31	3900 00	0 00	339.72	3900.00	0.00	0.00	0.00	0.00	423995.44	615127.22	N 32 9 54.48 W	/ 103 57 40.61
Backbuild 2°/100' DLS to 8° Inc	4000.00	0 00	339.72	4000 00	0.00	0.00	0.00	0.00	423995 44	615127.22	N 32 9 54.48 W	/ 103 57 40.61
	4100.00	2 00	339,72	4099.98	-1.62	1.64	-0.60	2.00	423997,08	615126 62	N 32 9 54.50 W	√ 103 57 40.62
	4200 00	4 00	339.72	4199 84	-6 46	6.55	-2.42	2.00	424001.99	615124 80	N 32 9 54.54 W	
11-14-63-1	4300.00	600	339.72	4299.45	-14.53	14.72	-5.44	2.00	424010.16	615121.78	N 32 9 54.63 W	
Hold 8° Inc	4399.95 4400.00	800 800	339.72 339.72	4398.65 4398.70	-25. 80 -25.80	26.14 26.15	-9.66 -9.66	2.00 0.00	424021.58 424021.59	615117.56 615117.56	N 32 9 54,74 W N 32 9 54,74 W	V 103 57 40.73
	4500.00	800	339,72	4497,73	-38 68	39 20	-14.49	0.00	424034.64	615112.73		V 103 57 40.78
	4600.00	8.00	339.72	4596.76	-51.56	52.26	-19.31	0.00	424047.69	615107.91		V 103 57 40.84
	4700.00	8.00	339.72	4695.78	-64.44	65.31	-24.13	0.00	424060.74	615103 09		V 103 57 40.89
	4800 00	8 00	339.72	4794 81	-77.32	78.36	-28.96	0.00	424073 80		N 32 9 55 26 W	
	4900.00	800	339,72	4893 84	-90 20 -103 08	91,41	-33.78	0.00	424086.85	615093.44		
	5000.00 5100.00	8 00 8.00	339.72 339.72	4992.86 5091.89	-103 08 -115.96	104.47 117.52	-38.61 -43.43	0.00	424099.90 424112.95		N 32 9 55 52 W N 32 9 55 64 W	
	5200.00	8.00	339.72	5190.92	-128.84	130.57	-48.25	0.00	424126.00	615078.97		
	5300.00	8 00	339,72	5289.95	-141 72	143.63	-53 08	0.00	424139.05	615074.15	N 32 9 55 90 W	
	5400.00	8.00	339.72	5388 97	-154 60	156.68	-57,90	0.00	424152.11	615069 32	N 32 9 56 03 W	
	5500.00	8.00	339.72	5488.00	-167.48	169.73	-62.72	0.00	424165.16	615064.50	N 32 9 56.16 W	V 103 57 41.34
	5600.00	8.00	339.72	5587.03	-180.36	182.78	-67.55	0.00	424178.21		N 32 9 56.29 W	
	5700.00	8.00	339,72	5686.05	-193 24	195.84	-72.37	0.00	424191 26		N 32 9 56 42 W	
	5800.00	8.00	339,72	5785 08	-206 12 -219 00	208.89	-77,19	0.00	424204 31		N 32 9 56 56 W	
	5900.00 6000.00	8.00 8.00	339.72 339.72	5884.11 5983.13	-219.00 -231.88	221.94 234.99	-82.02 -86.84	0.00 0.00	424217.36 424230.42	615045 21 615040.39	N 32 9 56.68 W N 32 9 56.81 W	
	6100.00	8.00	339.72	6082.16	-244 76	248.05	-91,66	0.00	424243.47		N 32 9 56.94 W	
	6200.00	8.00	339,72	6181.19	-257.64	261.10	-96 49	0.00	424256 52		N 32 9 57,07 W	
	6300 00	8.00	339.72	6280.22	-270.52	274.15	-101.31	0.00	424269.57	615025.92	N 32 9 57.20 W	V 103 57 41.78
	6400 00	8.00	339.72	6379.24	-283.40	287.21	-106.14	0.00	424282.62	615021.09	N 32 9 57.33 W	V 103 57 41.84
	6500.00	8.00	339.72	6478.27	-296 28	300.26	-110 96	0.00	424295.67		N 32 9 57,46 W	
	6600,00 6700 00	8.00 8.00	339.72 339.72	6577 30 6676.32	-309 16 -322.04	313 31 326.36	-115 78 -120.61	0.00 0.00	424308 73 424321.78		N 32 9 57.58 W N 32 9 57.71 W	
	070000	8.00	J38.12	0070.32	*J£2.04	J20,30	-120.01	0.00	464061.60	013000 02	14 OK 331.11 W	1 100 31 42,00

Comments	MD (ft)	inci (")	Azim Grid (*)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (*/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S * ' ")	Longitude (E/W * ` *)
	6800.00	8 00	339.72	6775 35	-334.92	339 42	-125 43	0.00	424334 83			V 103 57 42.06
	6900.00	8 00	339.72	6874.38	-347.80	352 47	-130 25	0.00	424347.88		N 32 9 57.97 \	
	7000 00	8 00	339.72	6973.41	-360.68	365.52	-135.08	0 00	424360.93		N 32 9 58 10 V	
	7100.00	8 00	339.72	7072.43	-373.56	378.57	-139.90	0.00	424373.99		N 32 95823 V	
Drop 2º/100' DLS to Vertical	7174.65	8 00	339.72	7146.35	-383.17	388 32	-143 50	0.00	424383.73	614983.73	N 32 9 58.33 \	W 103 57 42.27
DED to Verman	7200.00	7.49	339.72	7171.47	-386.34	391.52	-144 68	2.00	424386.93	614982.55	N 32 9 58.36 V	W 103 57 42.28
	7300.00	5.49	339,72	7270 83	-396 80	402,13	-148 60	2.00	424397.54	614978.63	N 32 9 58.46 V	V 103 57 42.33
	7400.00	3.49	339.72	7370.52	-404.05	409.47	-151.32	2.00	424404 88		N 32 9 58.54 V	
	7500 00	1.49	339.72	7470 42	-408 07	413 55	-152.83	2.00	424408 96		N 32 9 58 58 V	
Hold Vertical	7574.59	0.00	339.72	7545.00	-408.97	414.46	-153.16	2.00	424409.87		N 32 9 58 59 V	
	7600 00	0.00	339.72	7570 41	-408 97	414 46	-153 16	0.00	424409 87		N 32 9 58.59 V	
	7700.00	0 00	339,72	7670 41	-408.97	414.46	-153.16	0.00	424409.87		N 32 9 58.59 V	
	7800.00	0.00	339.72	7770.41	-408 97	414 46	-153.16	0 00	424409 87		N 32 9 58.59 V	
	7900.00	0,00	339,72	7870.41	-408.97	414.46	-153.16	0.00	424409.87		N 32 9 58.59 V	
	8000 00	0.00	339.72	7970 41	-408 97	414.46	-153,16	0.00	424409.87		N 32 9 58.59 V	
	8100 00	0 00	339.72	8070 41	-408 97	414.46	-153.16	0.00	424409.87	614974.07		
	8200 00	0.00	339.72	8170 41	-408 97	414.46	-153.16	0.00	424409.87		N 32 9 58.59 V	
	8300 00	0 00	339.72	8270 41	-408 97	414.46	-153.16	0.00	424409.87		N 32 9 58.59 V	
KOP - Build 10*/100' DLS	8325 59	0.00	339.72	8296 00	-408.97	414.46	-153.16	0.00	424409.87		N 32 9 58.59 V	
Curve		~										
	8400.00	7.44	180.01	8370 20	-404 15	409.64	-153.16	10.00	424405.05		N 32 9 58.54 V	
	8500.00	17,44	180.01	8467.73	-382.65	388.12	-153.17	10.00	424383.53		N 32 9 58.33 V	
	8600 00	27.44	180.01	8560.04	-344.54	350 00	-153 17	10.00	424345 41	614974.06		
	8700.00	37.44	180.01	8644 32	-291,00	296 42	-153.18	10 00	424291.84	614974.05		
	8800.00	47,44	180.01	8718.03	-223.64	229 03	-153 20	10.00	424224 45		N 32 9 56.75 V	
	8900.00	57.44	180.01	8778.91	-144 52	149.85	-153 21	10.00	424145.28		N 32 9 55.97 V	
	9000.00	67.44	180.01	8825.12	-56.03	61.31	-153.23	10.00	424056.75		N 32 9 55.09 V	
	9100.00	77.44	180.01	8855.25	39.14	-33 91	-153 25	10.00	423961.54		N 32 9 54.15 V	
Landing Point @	9200 00	87.44	180 01	8868.39	138.09	-132.91	-153.27	10.00	423862.54	614973.96	N 32 9 53.17 V	V 103 57 42.40
90.19° Inc	9227.48	90.19	180 01	8868.95	165.54	-160 38	-153 27	10 00	423835.07		N 32 9 52.90 V	
	9300,00	90.19	180 01	8868,72	238.02	-232.90	-153.29	0 00	423762 55		N 32 9 52.18 V	
	9400.00	90.19	180.01	8868.39	337.96	-332.90	-153 31	0 00	423662.56	614973.92		
	9500.00	90.19	180 01	8868.06	437.90	-432.90	-153.33	0.00	423562 57		N 32 95020 V	_
	9600.00	90.19	180.01	8867.73	537.84	-532,90	-153 35	0.00	423462.58		N 32 9 49.21 V	
	9700.00	90,19	180 01	8867,40	637.78	-632.90	-153.37	0.00	423362.59		N 32 94822 V	
	9800.00	90.19	180.01	8867.07	737.73	-732.90	-153 39	0 00	423262.60	614973.85		
	9900.00	90 19	180 01	8866.74	837,67	-832.90	-153.41	0.00	423162.60	614973.83		
	10000.00	90 19	180.01	8866 41	937.61	-932.90	-153.43	0 00	423062.61	614973.81		
	10100.00	90.19	180 01	8866.09	, 1037.55	-1032,90	-153 44	0.00	422962.62	614973.79		
	10200.00	90.19	180.01	8865.76	1137.49	-1132.90	-153.46	0.00	422862.63		N 32 9 43.27 V	
	10300.00	90.19	180.01	8865.43	1237.43	-1232.90	-153.48	0.00	422762.64	614973.75		
	10400.00	90 19	180 01	8865.10	1337.37	-1332.90	-153.50	0.00	422662.65	614973.73		
	10500.00	90 19	180.01	8864.77	1437.32	-1432.90	-153.52	0.00	422562.65	614973.71		
	10600.00	90 19	180 01	8864.44	1537.26	-1532.90	-153.54	0.00	422462.66	614973.69		
	10700 00	90 19	180.01	8864.11	1637.20	-1632.90	-153 56	0 00	422362,67	614973.67		
	10800.00	90 19	180 01	9863 78	1737.14	·1732.90	-153.58	0.00	422262.68	614973 65	N 32 9 37.34 V	V 103 57 42.47
	10900.00	90 19	180.01	8863.46	1837.08	-1832.89	-153 60	0 00	422162.69		N 32 9 36.35 V	
	11000.00	90 1 9	190.01	8863.13	1937.02	-1932,89	-153 62	0.00	422062.70	614973.61	N 32 935.36 V	V 103 57 42.48
	11100.00	90 19	180.01	8862.80	2036.96	-2032.89	-153 64	0.00	421962.70	614973 59	N 32 9 34.37 V	V 103 57 42.48
	11200.00	90 19	180.01	8862 47	2136.91	-2132.89	-153 66	0.00	421862.71	614973.57	N 32 933.38 V	V 103 57 42.49
	11300 00	90 19	180 01	8862.14	2236.85	-2232.89	-153 68	0.00	421762.72	614973.55	N 32 9 32.39 V	V 103 57 42.49
	11400.00	90 19	180.01	8861.81	2336.79	-2332.89	-153 70	0.00	421662,73	614973.53	N 32 931.40 V	V 103 57 42.50
	11500 00	90 19	180.01	8861.48	2436.73	-2432.89	-153.72	0.00	421562.74	614973 51	N 32 93041 V	V 103 57 42.50
	11600.00	90 19	180 01	8861.15	2536.67	-2532.89	-153 74	0.00	421462 75	614973 49	N 32 9 29 42 V	V 103 57 42.50
	11700.00	90 19	180.01	8860.83	2636.61	-2632.89	-153.76	0.00	421362.75		N 32 9 28 43 V	
	11800 00	90 19	180.01	8860.50	2736.55	-2732.89	-153.78	0.00	421262.76		N 32 9 27,44 V	
	11900 00	90 19	180.01	8860.17	2836.50	-2832.89	-153 80	0.00	421162.77		N 32 9 26.45 V	
	12000.00	90 19	180.01	8859.84	2936.44	-2932.89	-153.82	0.00	421062.78		N 32 92546 V	
	12100.00	90 19	180.01	8859.51	3036.38	-3032.89	-153 84	0.00	420962.79		N 32 924.47 V	
	12200 00	90 19	180 01	8859,18	3136.32	-3132.89	-153.86	0.00	420862.80		N 32 92348 V	
	12300.00	90.19	180.01	8858.85	3236.26	-3232.89	-153.88	0.00	420762.80		N 32 92249 V	
	12400 00	90 19	180 01	8858.52	3336.20	-3332,89	-153.89	0.00	420662.81			
	12500.00	90 19	180 01	8858.19	3436.14	-3432.89	-153.69	0.00	420562.81		N 32 921.50 V N 32 92052 V	
	12600.00	90.19	180.01	8857.87	3536.09	-3532.89	-153.93	0.00	420462.83		N 32 9 19.53 V	
	12700.00	90.19	180.01	8857,54	3636.03	-3632,88			420462.83			
							-153.95	0.00			N 32 9 18.54 V	
	12800 00	90 19	180.01	8857.21	3735.97	-3732.88	-153.97	0.00	420262.85		N 32 9 17,55 V	
	12900 00	90.19	180.01	8856.88	3835.91	-3832.88	-153.99	0 00	420162.85		N 32 9 16.56 V	
	13000 00	90.19	180.01	8856.55	3935.85	-3932.88	-154.01	0 00	420062.86		N 32 9 15.57 V	
	13100 00	90 19	180 01	8856.22	4035.79	-4032.88	-154.03	0.00	419962.87		N 32 9 14.58 V	
	13200 00	90 19	180 01	8855 89	4135.73	-4132.88	-154.05	0.00	419862.88		N 32 9 13.59 V	
	13300 00	90 19	180 01	8855.56	4235.68	-4232.88	-154.07	0.00	419762.89		N 32 9 12.60 V	
	13400 00	90 19	180 01	8855 24	4335.62	-4332.88	-154.09	0.00	419662.90		N 32 9 11 61 V	
Oxy Corral Fly 2	13500.00	90.19	180.01	8854.91	4435.56	-4432.88	-154.11	0.00	419562.90		N 32 9 10 62 V	
State 3H LTP	13562.84	90 19	180 01	8854.70	4498 36	-4495.72	-154.12	0 00	419500 07	614973 11 N	1 32 9 10.00 V	/ 103 57 42.59

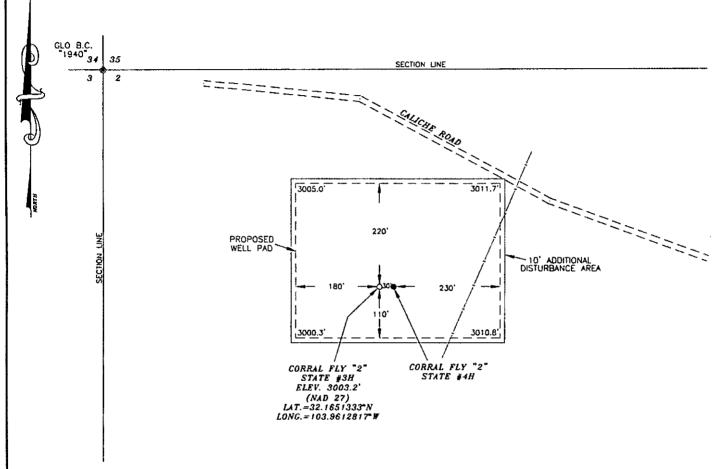
Survey Type:

Non-Del Plan

Survey Error Model: Survey Program: ISCWSA Rev 0 *** 3-D 95,000% Confidence 2,7955 sigma

De	Description	Part			EOU Freq	Hole Size Casi	ing Diameter	Survey Tool Type	Borehole / Survey	
	Description	rest	(ft)	(ft)	(ft)	(in)	(ln)	currey roor rype	Bololiolo / Galvey	
		1	0.000	13562.839	1/100.000	30.000	30.000	SLB_MWD-STD_HDGM	Original Borehole / Oxy Corral Fly	

OXY USA INC. CORRAL FLY "2" STATE #3H SITE PLAN





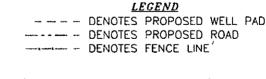
SURVEYORS CERTIFICATE

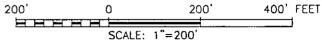
I, TERRY J. ASEL, NEW MEXICO PROFESSIONAL SURVEYOR NO. 15079, DO HEREBY CERTIFY THAT I CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND MEETS THE "MINIMIUM STANDARDS FOR SURVEYING IN NEW MEXICO" AS ADOPTED BY THE NEW MEXICO STATE BOARD OF REGISTRATION FOR PROFESSJONAL ENGINEERS AND SURVEYORS.



Asel Surveying

P.O. BOX 393 - 310 W. TAYLOR HOBBS, NEW MEXICO - 575-393-9146



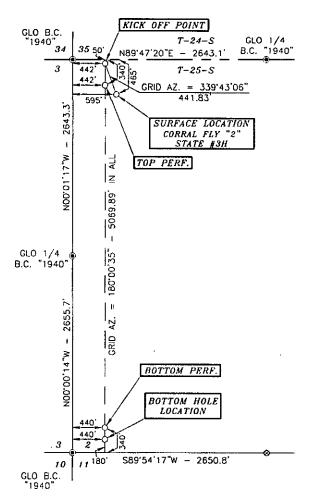


OXY USA WIP LA

CORRAL FLY "2" STATE #3H LOCATED AT 465' FNL & 595' FWL IN SECTION 2, TOWNSHIP 25 SOUTH, RANGE 29 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO

Survey Date: 10/13/15	Sheet 1	o	f 1 S	heets
W.O. Number: 151013WL-a	Drawn By	: KA	Rev:	
Date: 11/02/15	151013W	/L-a	Scale:1"=	200

SECTION 2, TOWNSHIP 25 SOUTH, RANGE 29 EAST, N.M.P.M., EDDY COUNTY NEW MEXICO



DRIVING DIRECTIONS:

BEGINNING AT THE INTERSECTION OF U.S. HWY. #285 AND BLACK RIVER VILLAGE ROAD IN MALAGA, GO EAST ON COUNTY ROAD #720 FOR 1.3 MILES, TURN RIGHT ON COUNTY ROAD #746 (MCDONALD ROAD) AND GO SOUTH FOR 0.8 MILES, CONTINUE SOUTHEAST/EAST FOR 4.8 MILES, CURVE TO THE LEFT FOR 0.4 MILES, TURN LEFT AND GO WEST FOR 0.1 MILES, TURN RIGHT AND GO NORTH FOR 0.7 MILES, TURN RIGHT AND GO EAST FOR 0.9 MILES, TURN RIGHT AND GO SOUTHWEST FOR 3.3 MILES, TURN RIGHT AND GO SOUTHWEST FOR 0.1 MILES, TURN RIGHT AND GO SOUTHWEST FOR 0.1 MILES, TURN RIGHT AND GO SOUTHWEST FOR 0.1 MILES, TURN RIGHT AND GO SOUTHWEST FOR 1.6 MILES, TURN RIGHT AND GO EAST FOR 0.6 MILES, TURN RIGHT AND GO EAST FOR 0.6 MILES, TURN RIGHT AND GO NORTHWEST FOR 2.2 MILES TO LOCATION.



SURVEYORS CERTIFICATE

I, TERRY J. ASEL, NEW MEXICO PROFESSIONAL SURVEYOR NO. 15079, DO HEREBY CERTIFY THAT I CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND MEETS THE "MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO" AS ADOPTED BY THE NEW MEXICO STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND SURVEYORS.

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Asel Surveying

P.O. BOX 393 - 310 W. TAYLOR HOBBS, NEW MEXICO - 575+393-9146

LECEND

asurements turn of 1983

- DENOTES FOUND MONUMENT AS NOTED

1000' 0 1000' 2000' FEET

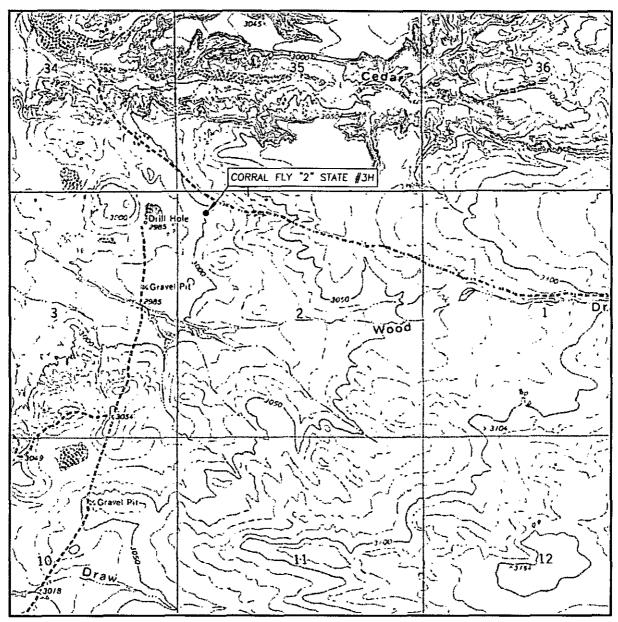
SCALE: 1"=1000'

OXY USA WIP LP

CORRAL FLY "2" STATE #3H LOCATED AT 465' FNL & 595' FWL IN SECTION 2, TOWNSHIP 25 SOUTH, RANGE 29 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO

Survey Date: 10/13/15	Sheet 1	0	f 1	Sheets
W.O. Number: 151013WL-a (Rev. A)	Drawn By:	KA	Rev: A	
Date: 11/10/15	151013W	L-a	Scale:1	"=1000°

LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL: 10'

SEC. 2 TWP. 25-S RGE. 29-E

SURVEY N.M.P.M.

COUNTY EDDY

DESCRIPTION 465' FNL & 595' FWL

ELEVATION 3003.2'

OPERATOR OXY USA WTP UP

LEASE CORRAL FLY "2" STATE #3H

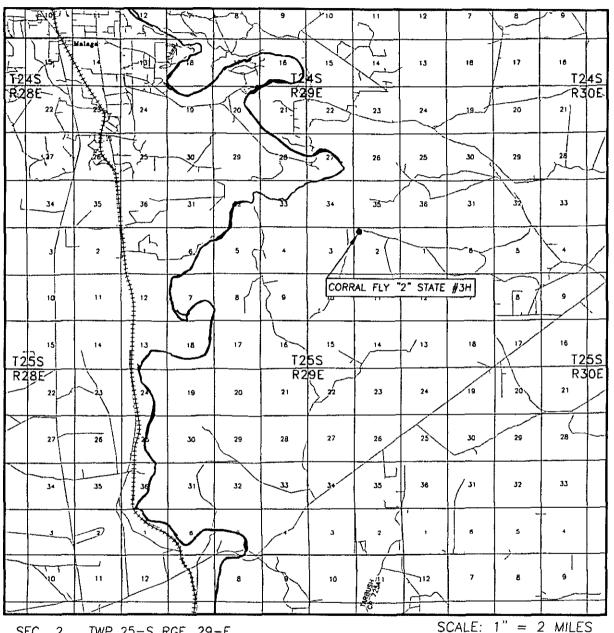
U.S.G.S. TOPOGRAPHIC MAP
PIERCE CANYON, N.M.

Asel Surveying

P.O. BOX 393 - 310 W. TAYLOR
HOBBS, NEW MEXICO - 575-393-9146



VICINITY MAP



SEC. 2 TWP. 25-S RGE. 29-E
SURVEY N.M.P.M.
COUNTY EDDY
DESCRIPTION 465' FNL & 595' FWL
ELEVATION 3003.2'
OPERATOR OXY USA WTP LP.

Asel Surveying

P.O. BOX 393 - 310 W. TAYLOR HOBBS, NEW MEXICO - 575-393-9146

LEASE CORRAL FLY "2" STATE #3H

DIRECTIONS BEGINNING AT THE INTERSECTION OF U.S. HWY. #285 AND BLACK RIVER VILLAGE ROAD IN MALAGA,

GO EAST ON COUNTY ROAD #720 FOR 1.3 MILES, TURN RIGHT ON COUNTY ROAD #746 (MCDONALD ROAD) AND

GO SOUTH FOR 0.8 MILES, CONTINUE SOUTHEAST/EAST FOR 4.8 MILES, CURVE TO THE LEFT FOR 0.4 MILES,

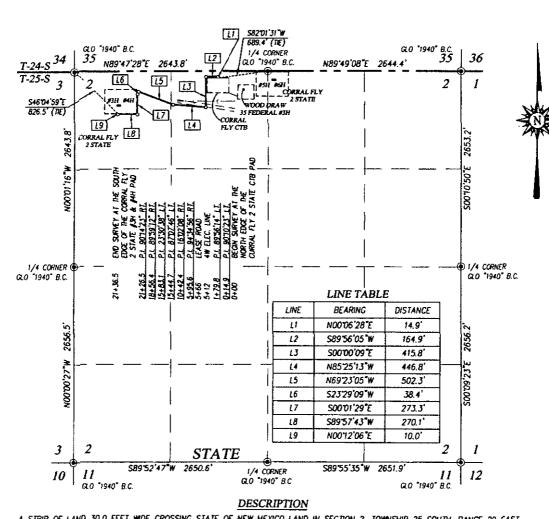
TURN LEFT AND GO WEST FOR 0.1 MILES, TURN RIGHT AND GO NORTH FOR 0.7 MILES, TURN RIGHT AND GO

EAST FOR 0.9 MILES, TURN RIGHT AND GO SOUTHEAST FOR 3.3 MILES, TURN RIGHT AND GO SOUTHWEST FOR

0.1 MILES, TURN LEFT AND GO SOUTHEAST FOR 1.6 MILES, TURN RIGHT AND GO SOUTHWEST FOR 2.1 MILES,

TURN RIGHT AND GO EAST FOR 0.6 MILES, TURN RIGHT AND GO NORTHWEST FOR 2.2 MILES TO LOCATION.





A STRIP OF LAND 30.0 FEET WIDE CROSSING STATE OF NEW MEXICO LAND IN SECTION 2, TOWNSHIP 25 SOUTH, RANGE 29 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO, AND BEING 15.0 FEET LEFT AND 15.0 FEET RIGHT OF THE FOLLOWING DESCRIBED CENTERLINE SURVEY:

BEGINNING AT A POINT IN THE NORTHEAST QUARTER OF THE NORTHWEST QUARTER, WHICH LIES S82"01"31"W 689.4.0 FEET FROM THE NORTH QUARTER CORNER; THEN NO0"06"28"E 14.9 FEET; THEN S89"36"05"W 164.9 FEET; THEN S00"00"09"E 415.8 FEET; THEN N85"25"13"W 446.8 FEET; THEN N69"23"05"W 502.3 FEET; THEN S23"29"09"W 38.4 FEET; THEN S00"01"29"E 273.3 FEET; THEN S89"57"43"W 270.1 FEET; THEN N00"12"06"E 10.0 FEET TO A POINT, WHICH LIES S46"04"59"E 826.5 FEET FROM THE NORTHWEST CORNER.

SAID STRIP OF LAND BEING 2136.5 FEET OR 129.48 RODS IN LENGTH, CONTAINING 1.471 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

NE/4 NW/4 65.02 RODS OR 0.738 ACRES NW/4 NW/4 64.46 RODS OR 0.733 ACRES

NOTE

BEARINGS SHOWN HEREON ARE MERCATOR ORID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES.

I, RONALD J. EIDSON, NEW MEXICO PROFESSIONAL SURVEYOR NO. 3239, DO HEREBY CERTIFY THAT THIS SURVEY PLAT, AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISIONS THAT IT MY RESPONSIBLE FOR THIS SURVEY DIETS THE MANDIMUM STANDARDS FOR SURVEYING IN NEW MEXICO. AND SHATTITIS CIRULT AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELLET.

RONALD J. EIDSON AMAILL COLDEN

PROVIDING SURVEYING SERVICES
SINCE 1946
JOHN WEST SURVEYING COMPANY
412 N. DAL PASO HOBBS, N.M. 88240

(575) 393-3117 www.jwsc.biz TBPLS# 10021000 **LEGEND**

© DENOTES FOUND CORNER AS NOTED

1000 0 1000 2000 FEET

Scale: 1 = 1000'

OXY U.S.A. WIFLF

SURVEY FOR A SURFACE PIPELINE TO THE CORRAL FLY 2 STATE #3H & #4H CROSSING SECTION 2, VNSHIP 25 SOUTH RANGE 29 FAST NM 1

TOWNSHIP 25 SOUTH, RANGE 29 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO

Survey Date: 11/10/15 CAD Date: 12/2/15 Drown By: LSL W.O. No.: 15111047 Rev: . Rel. W.O.: Sheet 1 at 1

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy, Minerals and Natural Resources Department

Submit Original to Appropriate District Office

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

GAS CAPTURE PLAN

Date: <u>5-17-2016</u>	
□ Original	Operator & OGRID No.: OXY USA WTP Limited Partnership - 192463
☐ Amended - Reason for Amendment:	

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomplete to new zone, re-frac) activity.

Note: Form C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule (Subsection A of 19.15.18.12 NMAC).

Well(s)/Production Facility - Name of facility

The well(s) that will be located at the production facility are shown in the table below.

Well Name	API	Well Location (ULSTR)	Footages	Expected MCF/D	Flared or Vented	Comments
Corral Fly 2 State #3H	Pending	Unit D / Lot 4, Sec. 2, T25S, R29E	110FNL 867FWL	2,741	0	
Corral Fly 2 State #4H	Pending	Unit D / Lot 4, Sec. 2, T25S, R29E	110FNL 897FWL	2,741	0	77
Corral Fly 2 State #5H	Pending	Unit C / Lot 3, Sec. 2, T25S, R29E	110FNL 2632FWL	2,741	0	
Corral Fly 2 State #6H	Pending	Unit B / Lot 2, Sec. 2, T25S, R29E	110FNL 2625FEL	2,741	0	
Corral Fly 2 State #7H	Pending	Unit A / Lot 1, Sec. 2, T25S, R29E	110FNL 891FEL	2,741	0	
Corral Fly 2 State #8H	Pending	Unit A / Lot 1, Sec. 2, T25S, R29E	110FNL 861FEL	2,741	0	

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, where a gas transporter system is expected be in place. OXY USA WTP Limited Partnership ("OXY") has begun discussion with third-party gas processors and currently has two (2) potential gas gathering pipeline options. The gas produced from the production facility will be connected to a low/high pressure gathering system and processed at a processing plant. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

Flowback Strategy

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

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

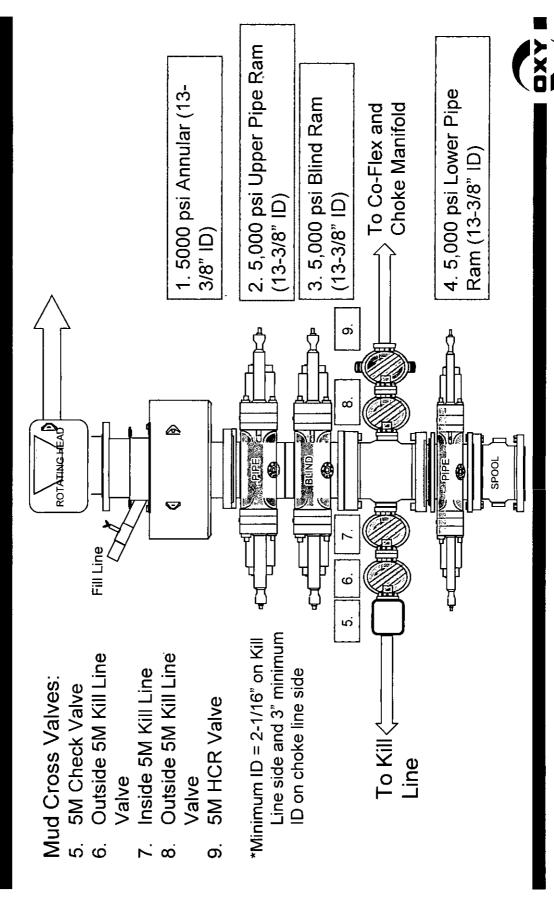
Alternatives to Reduce Flaring

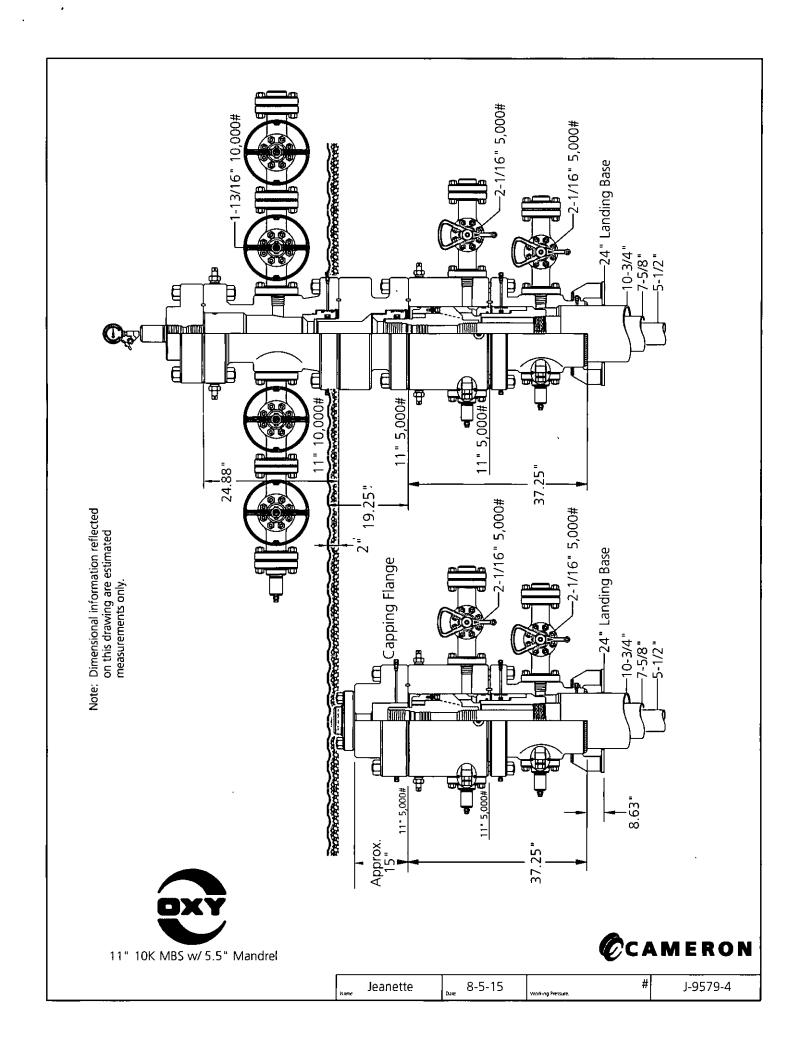
Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

• Power Generation – On lease

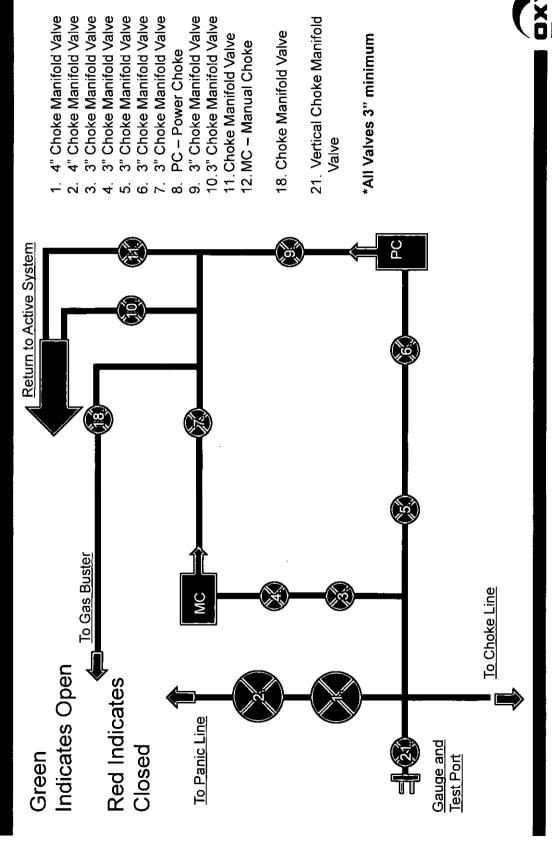
- o Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas On lease
 - o Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal On lease
 - o Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

5M BOP Stack

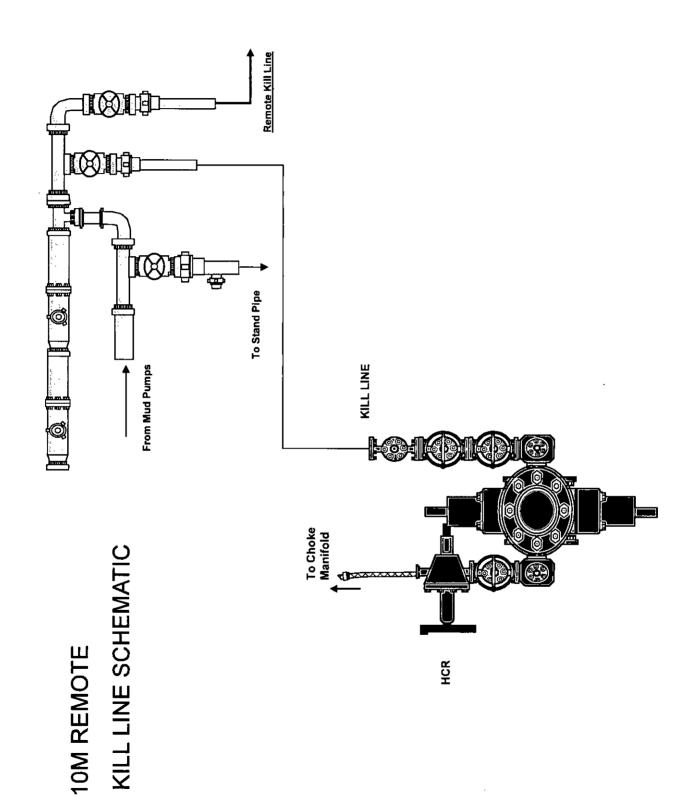


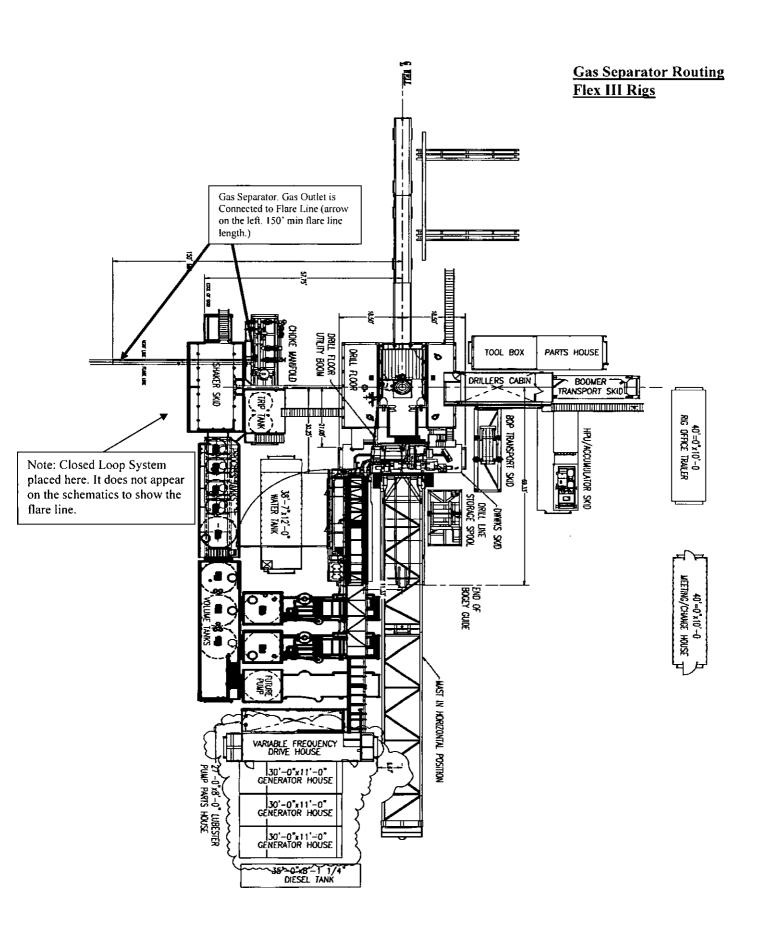


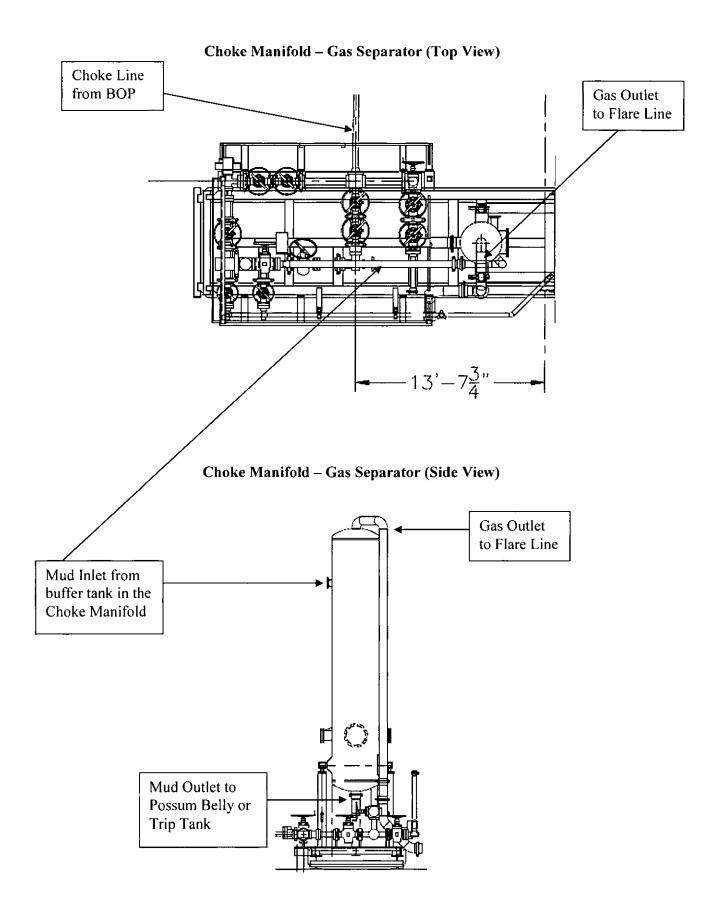
5M Choke Panel

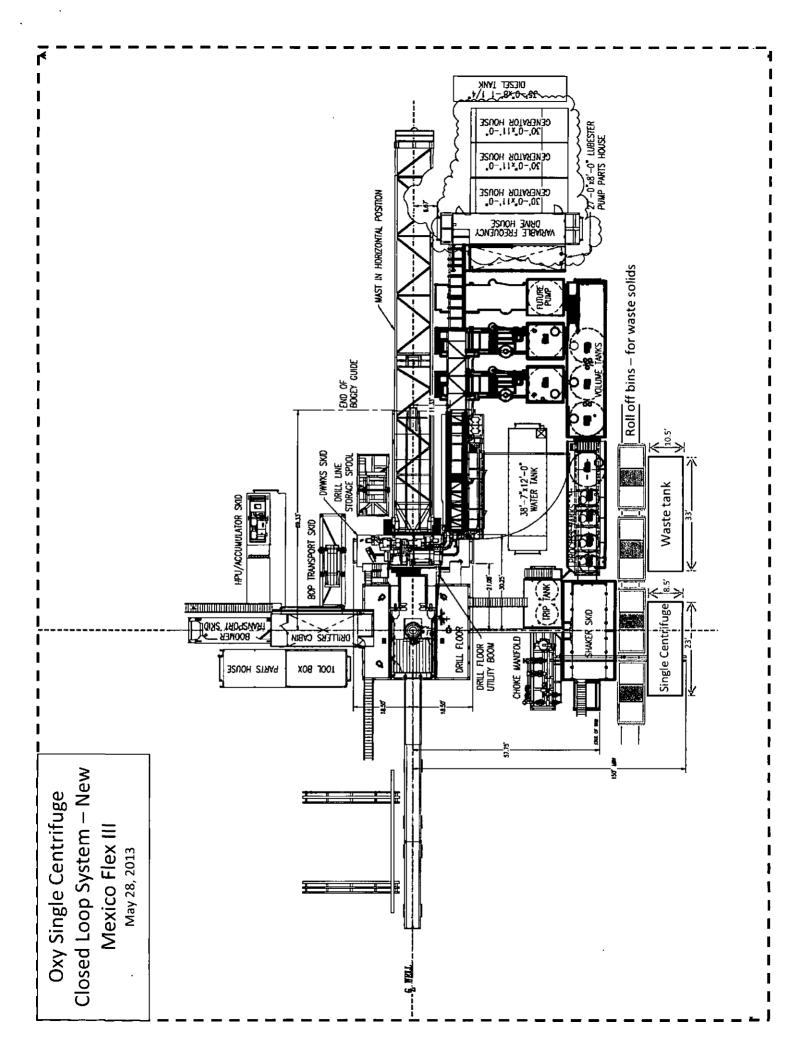


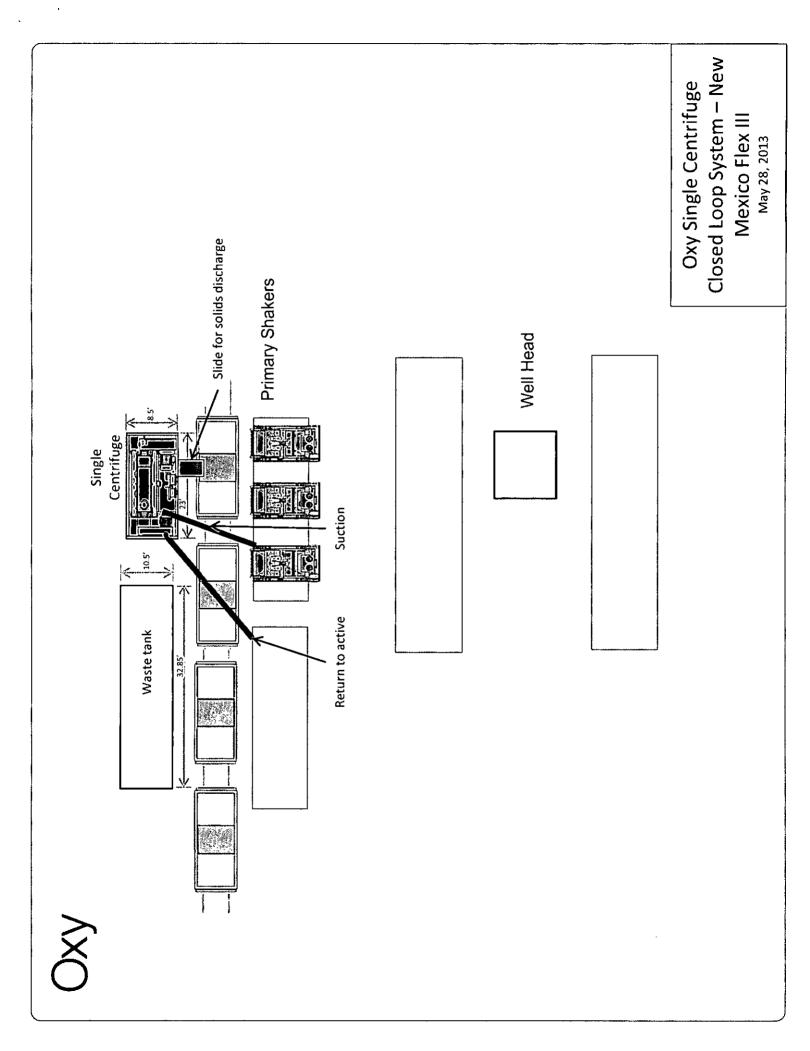












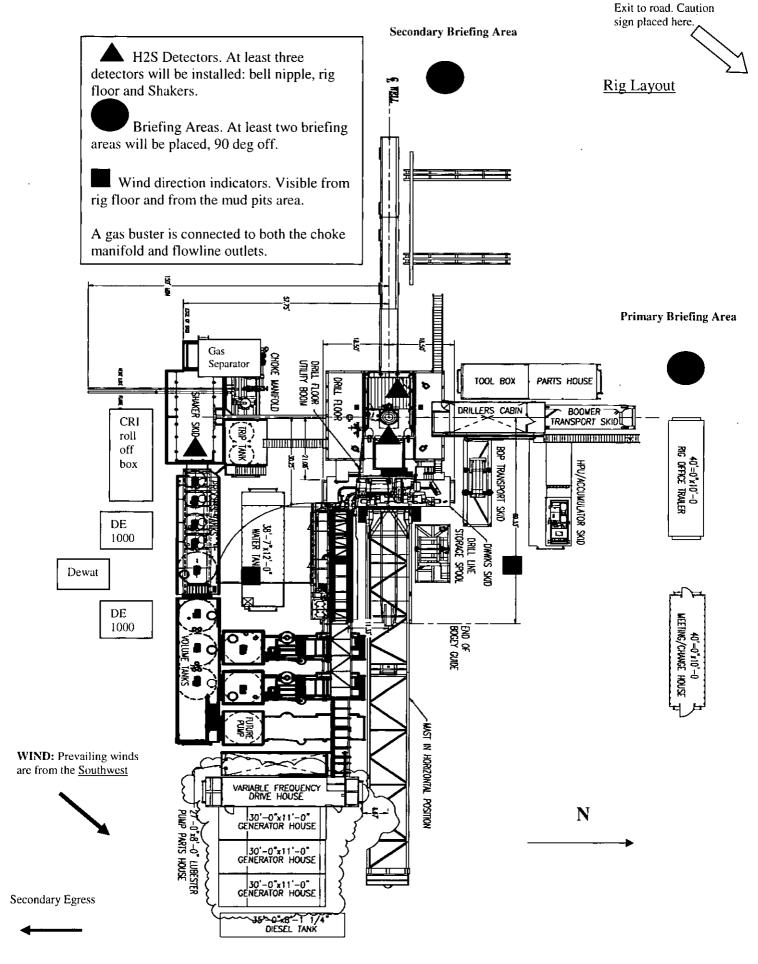


Permian Drilling Hydrogen Sulfide Drilling Operations Plan Corral Fly 2 State 3H

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

1. Escape

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





Permian Drilling Hydrogen Sulfide Drilling Operations Plan New Mexico

Scope

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

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

Objective

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

Discussion

Implementation: This plan with all details is to be fully implemented

before drilling to commence.

Emergency response

Procedure:

This section outlines the conditions and denotes steps

to be taken in the event of an emergency.

Emergency equipment

Procedure:

This section outlines the safety and emergency

equipment that will be required for the drilling of this

well.

Training provisions: This section outlines the training provisions that must

be adhered to prior to drilling.

Drilling emergency call lists: Included are the telephone numbers of all persons to

be contacted should an emergency exist.

Briefing: This section deals with the briefing of all people

involved in the drilling operation.

Public safety: Public safety personnel will be made aware of any

potential evacuation and any additional support

needed.

Check lists: Status check lists and procedural check lists have been

included to insure adherence to the plan.

General information: A general information section has been included to

supply support information.

Hydrogen Sulfide Training

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

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

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

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

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

Service company and visiting personnel

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

Emergency Equipment Requirements

1. Well control equipment

The well shall have hydraulic BOP equipment for the anticipated pressures. Equipment is to be tested on installation and follow Oxy Well Control standard, as well as BLM Onshore Order #2.

Special control equipment:

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

2. Protective equipment for personnel

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

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

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

4. Visual Warning Systems

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

Caution – potential poison gas Hydrogen sulfide No admittance without authorization

Wind sock – wind streamers:

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

Condition flags

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

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green – normal conditions
yellow – potential danger
red – danger, H2S present
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B. Condition flag shall be posted at each location sign entrance.

5. Mud Program

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

Mud inspection devices:

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

6. Metallurgy

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

7. Well Testing

No drill stem test will be performed on this well.

8. Evacuation plan

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

9. Designated area

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

Emergency procedures

- A. In the event of any evidence of H2S level above 10 ppm, take the following steps:
 - 1. The Driller will pick up off bottom, shut down the pumps, slow down the pipe rotation.
 - 2. Secure and don escape breathing equipment, report to the upwind designated safe briefing / muster area.
 - 3. All personnel on location will be accounted for and emergency search should begin for any missing, the Buddy System will be implemented.
 - 4. Order non-essential personnel to leave the well site, order all essential personnel out of the danger zone and upwind to the nearest designated safe briefing / muster area.
 - 5. Entrance to the location will be secured to a higher level than our usual "Meet and Greet" requirement, and the proper condition flag will be displayed at the entrance to the location.
 - 6. Take steps to determine if the H2S level can be corrected or suppressed and, if so, proceed as required.

B. If uncontrollable conditions occur:

1. Take steps to protect and/or remove any public in the down-wind area from the rig – partial evacuation and isolation. Notify necessary public safety personnel and appropriate regulatory entities (i.e. BLM) of the situation.

- 2. Remove all personnel to the nearest upwind designated safe briefing / muster area or off location.
- 3. Notify public safety personnel of safe briefing / muster area.
- 4. An assigned crew member will blockade the entrance to the location. No unauthorized personnel will be allowed entry to the location.
- 5. Proceed with best plan (at the time) to regain control of the well. Maintain tight security and safety procedures.

C. Responsibility:

- 1. Designated personnel.
 - a. Shall be responsible for the total implementation of this plan.
 - b. Shall be in complete command during any emergency.
 - c. Shall designate a back-up.

All	personnel:	
-----	------------	--

- 1. On alarm, don escape unit and report to the nearest upwind designated safe briefing / muster area upw
- 2. Check status of personnel (buddy system).
- 3. Secure breathing equipment.
- 4. Await orders from supervisor.

Drill site manager:

- 1. Don escape unit if necessary and report to nearest upwind designated safe briefing / muster area.
- 2. Coordinate preparations of individuals to return to point of release with tool pusher and driller (using the buddy system).
- 3. Determine H2S concentrations.
- 4. Assess situation and take control measures.

Tool pusher:

- 1. Don escape unit Report to up nearest upwind designated safe briefing / muster area.
- 2. Coordinate preparation of individuals to return to point of release with tool pusher drill site manager (using the buddy system).
- 3. Determine H2S concentration.
- 4. Assess situation and take control measures.

Driller:

1. Don escape unit, shut down pumps, continue

- rotating DP.
- 2. Check monitor for point of release.
- 3. Report to nearest upwind designated safe briefing / muster area.
- 4. Check status of personnel (in an attempt to rescue, use the buddy system).
- 5. Assigns least essential person to notify Drill Site Manager and tool pusher by quickest means in case of their absence.
- 6. Assumes the responsibilities of the Drill Site Manager and tool pusher until they arrive should they be absent.

Derrick man Floor man #1 Floor man #2 1. Will remain in briefing / muster area until instructed by supervisor.

Mud engineer:

- 1. Report to nearest upwind designated safe briefing / muster area.
- 2. When instructed, begin check of mud for ph and H2S level. (Garett gas train.)

Safety personnel:

1. Mask up and check status of all personnel and secure operations as instructed by drill site manager.

Taking a kick

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

Open-hole logging

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

Running casing or plugging

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

Ignition procedures

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

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

Instructions for igniting the well

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

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

Status check list

Note:	All items on	this list mu	ist be comp	leted before	drilling to	production	casing	point.
	TALL INVESTIGATION OF THE	CITIO LIDE III	ace ce comp	icted cereic		production	Cushing.	POILIE.

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

Checked by:	Date:
-------------	-------

Procedural check list during H2S events

Perform each tour:

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

Perform each week:

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

General evacuation plan

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

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

Emergency actions

Well blowout – if emergency

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

Person down location/facility

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

Toxic effects of hydrogen sulfide

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

Table i <u>Toxicity of various gases</u>

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

- threshold limit concentration at which it is believed that all workers may be repeatedly exposed day after day without adverse effects.
- 2) hazardous limit concentration that will cause death with short-term exposure.
- 3) lethal concentration concentration that will cause death with short-term exposure.

Toxic effects of hydrogen sulfide

Table ii
Physical effects of hydrogen sulfide

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

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

^{*}at 15.00 psia and 60'f.

Use of self-contained breathing equipment (SCBA)

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

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

Rescue First aid for H2S poisoning

Do not panic!

Remain calm - think!

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

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

Revised CM 6/27/2012

NMOCD CONDITION OF APPROVAL

The *Newl* Gas Capture Plan (GCP) notice is posted on the NMOCD website under Announcements. The Plan became effective May 1, 2016. A copy of the GCP form is included with the NOTICE and is also in our FORMS section under Unnumbered Forms. Please review filing dates for all applicable activities currently approved or pending and submit accordingly. Failure to file a GCP may jeopardize the operator's ability to obtain C-129 approval to flare gas after the initial 60-day completion period.