	UNITED STATES PARTMENT OF THE IN UREAU OF LAND MANAC	NTERIOR -	OCD Arte	Sta OMB I Expires	1 APPROVED NO. 1004-0135 s: July 31, 2010
SUNDRY	NOTICES AND REPOR	5. Lease Scrial No. NMNM109756			
Do not use thi abandoned wel	s form for proposals to (I. Use form 3160-3 (APD	n Is.	6. If Indian, Allottee	or Tribe Name	
SUBMIT IN TRI	PLIĆATE - Other instruc	tions on reverse sid	le.	7. If Unit or CA/Agr	reement, Name and/or No.
. Type of Well			<u></u>	8. Well Name and N PEACHES 19 F	
2. Name of Operator OXY USA INCORPORATED	Contact:	DAVID STEWART		9. API Well No. 30-015-42030	-00-X1
3a. Address 5 GREENWAY PLAZA STE 1 HOUSTON, TX 77046-0521	10	3b. Phone No. (include Ph: 432.685.5717	area code)	10. Field and Pool, o COTTONWOO	
Location of Well (Footage, Sec., T.	., R., M., or Survey Description)			11. County or Parish	a, and State
Sec 19 T25S R27E Lot 1 0150 32.122100 N Lat, 104.235336				EDDY COUNT	ΓΥ, NM
12. CHECK APPF	OPRIATE BOX(ES) TO	INDICATE NATU	RE OF NO	TICE, REPORT, OR OTH	ER DATA
TYPE OF SUBMISSION			TYPE OF A	CTION	
🛛 Notice of Intent	Acidize Alter Casing	Deepen Fracture Trea		Production (Start/Resume) Reclamation	□ Water Shut-Off □ Well Integrity
□ Subsequent Report	Casing Repair	□ Fracture frea	-] Recomplete	Other
Final Abandonment Notice	Change Plans	 Plug and Aba Plug Back 	andon [Temporarily Abandon Water Disposal	Change to Original PD
 Describe Proposed or Completed Ope If the proposal is to deepen directions Attach the Bond under which the wor following completion of the involved testing has been completed. Final At determined that the site is ready for final statement of the site is ready for final statement. 	ally or recomplete horizontally, rk will be performed or provide l operations. If the operation res bandonment Notices shall be file	give subsurface locations the Bond No. on file with sults in a multiple complet	and measured BLM/BIA. R tion or recomp	and true vertical depths of all pert equired subsequent reports shall b letion in a new interval, a Form 3	tinent markers and zones. be filed within 30 days 160-4 shall be filed once
OXY USA Inc. respectfully rec	uests approval for the foll	lowing changes to the	e drilling pla	in:	
Proposed TD - 12500'M 7797'	'V				
1. Request casing design moc 14-3/4" surface hole w/ 10-3/4 hole w/ 5-1/2 & 4-1/2" csg. De	lification, to drill the well w " csg, 9-7/8" intermediate tails are below.			HED FOR MOI S OF APPROVA	L CONSERVATIO RTESIA DISTRICT
a.Surface Casing 10-3/4" 45.5# J-55 BT&C new	r csg @ 0-350', 14-3/4" ho	ole w/ 8.4# mud	DN	8/12/15	:
Coll Rating (psi)-2090 Burst R	lating (psi)-3580	A	CCepted NM	Wr record	RECEIVED
14. I hereby certify that the foregoing is	Electronic Submission #3 For OXY USA	NINCORPORATED, se	ent to the Ca	nformation System rlsbad 08/06/2015 (15CRW0092SE)	
Name (Printed/Typed) DAVID ST		Title	and the second se	ORY ADVISOR	
Signature (Electronic S	Submission)	Date	07/06/201	APPKUVE	
	THIS SPACE FC	OR FEDERAL OR	STATE OF		
				AUG - 0 2015	
Approved By		Title		Then the A	Date

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** BLM REVISED **

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Additional data for EC transaction #308065 that would not fit on the form

32. Additional remarks, continued

SF Coll-15.98 SF Burst-1.42 SF Ten-5.94

b.Intermediate Casing 7-5/8" 26.4# J-55 BT&C new csg @ 0-1950', 9-7/8" hole w/ 10.0# mud

Coll Rating (psi)-3400 Burst Rating (psi)-6020 SF Coll-8.17 SF Burst-1.39 SF Ten-4.23

c.Production Casing. 5-1/2" 20# P-110/USF new csg @ 0-8124'M, 6-3/4" hole w/ 9.2# mud Coll Rating (psi)-11100 Burst Rating (psi)-12600 SF Coll-2.67 SF Burst-1.26 SF Ten-2.30

4-1/2" 13.5# P-110 BT&C new csg @ 8125-12500'M, 6-3/4" hole w/ 9.2# mud Coll Rating (psi)-10670 Burst Rating (psi)-12410 SF Coll-2.57 SF Burst-1.25 SF Ten-3.05

Collapse and burst loads calculated using Stress Check with anticipated loads, see attached for design assumptions

2. Cement program adjustment to the new bit/casing sizes. Cement program modifications detailed below.

a. Surface - Circulate cement to surface w/ 380sx PP cmt w/ 2% CaCl2, 14.8ppg 1.35 yield 1415# 24hr CS 150% Excess.

b. Intermediate - Circulate cement to surface w/ 340sx HES light PP cmt w/ 5% Salt + .1% HR-800, 12.9ppg 1.85 yield 824# 24hs CS 125% Excess followed by 200sx PP cmt, 14.8ppg 1.33 yield 1789# 24hr CS 125% Excess.

c. Production - Cement w/ 200sx Tuned Light (TM) system cmt w/ 3#/sx Kol-Seal + .125#/sx Poly-E-Flake + .8% HR-601, 10.2ppg 3.05 yield 555# 24hr CS 25% Excess followed by 520sx Super H cmt w/ 3#/sx salt + .1% HR-800 + .3% CFR-3 + .5% Halad(R)-344 + 2#/sx Kol-Seal, 13.2ppg 1.65 yield 1462# 24hr CS 25% Excess. Estimated TOC @ 1450'.

Description of Cement Additives: Calcium Chloride, Salt (Accelerator); CFR-3 (Dispersant); Kol-Seal, Poly-E-Flake (Lost Circulation Additive); Halad-344 (Low Fluid Loss Control); HR-601, HR-800 (Retarder)

The above cement volumes could be revised pending the caliper measurement.

3. Mud Program

Depth	Mud WT	Vis Sec	Fluid Loss	Туре
0-350'	8.5-9.0	40-55	50-75cc/30min	EnerSeal Spud Mud (MMH)
350-1950		28-32	NC N	aCl Brine
1950-TD	8.8-9.6	38-50	50-75cc/30m	in EnerSeal (MMH)

4. The Operator will connect the BOP choke outlet to the choke manifold using a hose that meets all BLM requirements and will be inspected and approved by BLM personnel prior to spud.

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Eddy County, NM (NAD 27 NME) Peaches 19 Fed 4H Peaches 19 Fed 4H

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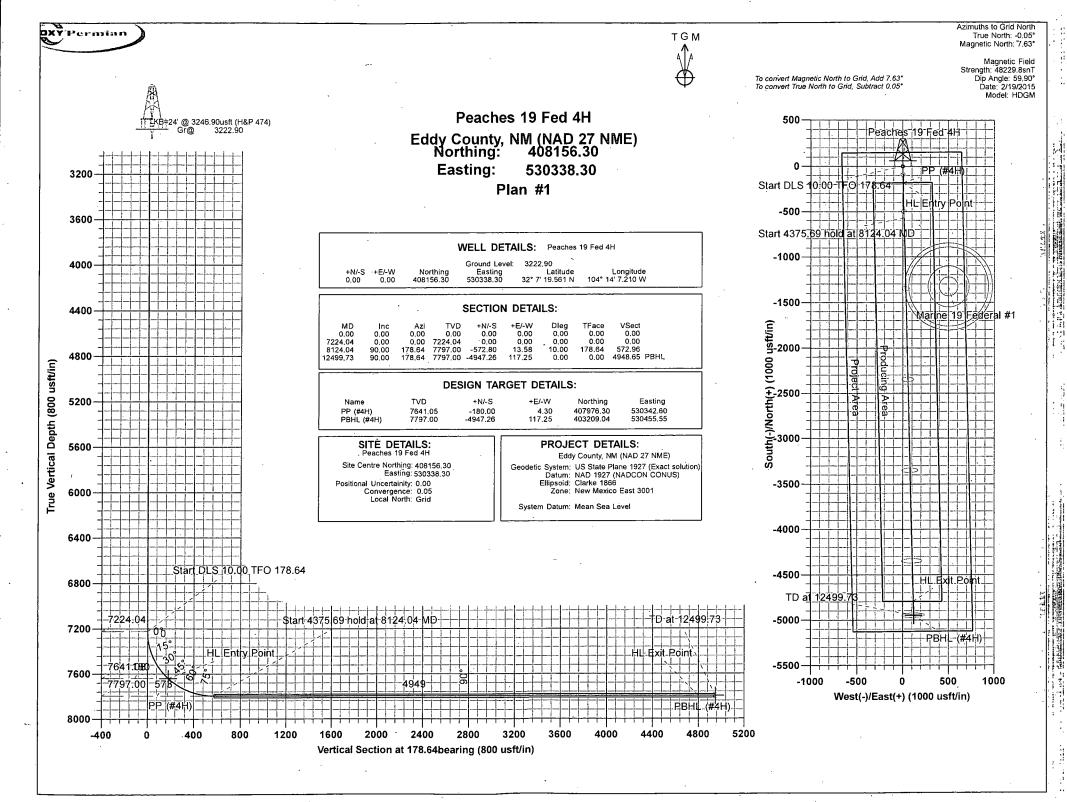
Plan: Plan #1

Standard Planning Report

19 February, 2015



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5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	0.00	0.00	0.00
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. 6,000.00	0.00	0.00	. 6,000.00	0.00	0.00	0.00	0.00	0.00	0.00
6,100.00	0.00	0.00	· 6,100.00	0.00	. 0.00	0.00	0.00	0.00	0.00
6,200.00	0.00	0.00	6,200.00	0.00	0.00	0.00	0.00	0.00	0.00
6,300.00	0.00	0.00	6,300.00	0.00	0.00 -	0.00	0.00	0.00	0.00
6,400.00	0.00	0.00	6,400.00	0.00	0,00	0.00	0.00	0.00	0.00
6,500.00	0.00	0.00	6,500.00	· 0.00	0.00	0.00	0.00	0.00	0.00
6,600.00	0.00	0.00	6,600.00	0.00	0.00	0.00	0.00	0.00	0.00
6,700.00	0.00	0.00	6,700.00	0.00	0.00	0.00	0.00	0.00	0.00
6,800.00	0.00	0.00	6,800.00	0.00	0.00	0.00	0.00	0.00	0.00
6,900.00	0.00	0.00	6,900.00	0.00	0.00	0.00	0.00	0.00	0.00
7,000.00	0.00	0.00	7,000.00	0.00	0.00	0.00	0.00	0.00	0.00
7,100.00	0.00	0.00	7,100.00	0.00	0.00	0.00	0.00	0.00	0.00
7,200.00	0.00	0.00	7,200.00	. 0.00	0.00	0.00	0.00	0.00	0.00
7,224.04	0.00	0,00	7,224.04	0.00	0.00	0.00	0.00	0.00	0.00
Start DLS 10.0		1. Star 12-13	and the second			ું બુ જે			
7,250.00	2.60	178.64	7,249.99	-0.59	0.01	0.59	10.00	10.00	0.00
7,300.00	7.60	178.64	7,299.78	-5.03	0.12	5.03	10.00	10.00	0.00
7,350.00	12.60	178.64	7,348.99	-13.79	0.33	. 13.79	10.00	10.00	0.00
7,400.00	17.60	178.64	7,397.25	-26.80	0.64	26.81	10.00	10.00	0.00
7,450.00	22.60	178.64	7,444.19	-43.97	1.04	43.98	10.00	10.00	0.00
7,500.00	27.60	178.64	7,489.45	-65.16	1.54	65.18	10.00	10.00	0.00
7,550.00	32.60	178.64	7,532.70	-90.22	2.14	90.25	10.00	10.00	0.00
7,600.00	37.60	178.64	7,573.60	-118.95	2.82	118.98	10.00	10.00	0.00
7,650.00	42.60	178.64	7,611.83	-151.14	3.58	151.18	10.00	10.00	0.00
7,691.12	46.71	178.64	7,641.08	-180.02	4.27	• 180.07	10.00	10.00	0.00
HL Entry Poin				Strap Aler	ويقرر المرجع المرجعة والمع				and the second
7,700.00	47.60	178.64	7,647.12	-186.53	4.42	186.58	10.00	10.00	0.00
7,750.00	52.60	178.64	7,679.18	-224.86	5.33	224.93	10.00	10.00	0.00
7,800.00	57.60	178.64	7,707.78	-265.84	6.30	265.92	10.00	10.00	0.00
7,850.00	62.60	178.64	7,732.70	-309.16	7.33	309.25	10.00	10.00	0.00
7,900.00	67.60	178.64	7,753.75	-354.48	8.40	354.58	10.00	10.00	0.00
7,950.00	72.60	178.64	7,770.77	-401.47	9.51	401.58	10.00	10.00	0.00 .
8,000.00	77,60	178.64	7,783.62	-449.76	10.66	449.88	10.00	10.00	0.00
8,050.00	82.60	178.64	7,792.22	-498.98	11.83	499.12	10.00	10.00	0.00
8,100.00	87.60	178.64	7,796.49	-548.77	13.01	548.92	10.00	10.00	0.00
8,124.04	90.00	178.64	7,797.00	-572.80	.13.58	572.96	10.00	10.00	0.00
	hold at 8124.04 N		7 707 00		45.00	C40.00			
8,200.00	90.00	178.64	7,797.00	-648.74	15.38	648.92	0.00	0.00	0.00
8,300.00	90.00	178.64	7,797,00	-748.71	17.74	748.92	0.00	0.00	0.00
8,400.00	90.00	178.64	7,797.00	-848.68	20.11	848.92	0.00	0.00	0.00
8,500.00	90.00	178.64	7,797.00	-948.65	22.48	948.92	0.00	0.00	0.00
8,600.00	90.00	178.64	7,797.00	-1,048.62	24.85	1,048.92	0.00	0.00	0.00
8,700.00	90.00	178.64	7,797.00	-1,148.60	27.22.	1,148.92	0.00	0.00	0.00
8,800.00	90.00	178.64	7,797.00	-1,248.57	29.59	1,248.92	0.00	0.00	0.00
8,900.00	90.00	178.64	7,797.00	-1,348.54	31.96	1,348.92	0.00	0.00	0.00
9,000.00	90.00	178.64	7,797.00	-1,448.51	34.33	1,448.92	0.00	0.00	0.00
9,100.00	90.00	178.64	7,797.00	-1,548.48	36.70	1,548.92	0.00	0.00	0.00
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COMPASS 5000.1 Build 74

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9,200.00	90.00	178.64	7,797.00	-1,648.45	39.07	1,648.92	0.00	0.00	0.00
9,300.00	90.00	178.64	7,797.00	-1,748.43	41.44	1,748.92	0.00	0.00	0.00
9,400.00	90.00	178.64	7,797.00	-1,848.40	43.81	1,848.92	0.00	0.00	· 0.00
9,500.00	90.00	178.64	7,797.00	-1,948.37	46.18	1,948.92	0.00	0.00	0.00
9,600.00	90.00	178.64	7,797.00	-2,048.34	48.55	2,048.92	0.00	0.00	0.00
9,700.00	90.00	178.64	7,797.00	-2,148.31	50.92	2,148.92	0.00	0.00	0.00
9,800.00	90.00	178.64	7,797.00	-2,248.29	53.28	2,248.92	0.00	0.00	0.00
9,900.00	90.00	178.64	7,797.00	-2,348.26	55.65	2,348.92	0.00	0.00	0.00
10,000.00	90.00	178.64	7,797.00	-2,448.23	58.02	, 2,448.92	0.00	0.00	0.00
10,100.00	90.00	178.64	7,797.00	-2,548.20	60.39	2,548.92	• 0.00	0.00	0.00
10,200.00	90.00	178.64	7,797.00	-2,648.17	62.76	[.] 2,648.92	0.00	0.00	0.00
10,300.00	90.00	178.64	7,797.00	-2,748.15	65.13	2,748.92	0.00	0.00	0.00
10,400.00	90,00	178.64	7,797.00	-2,848.12	67.50	2,848.92	0.00	0.00	0.00
10,500.00	90.00	178.64	7,797.00	-2,948.09	69.87	2,948.92	0.00	0.00	0.00
10,600.00	90.00	178.64	7,797.00	-3,048.06	72.24	3,048.92	0.00	0.00	0.00
10,700.00	90.00	178.64	7,797.00	⁻ -3,148.03	74.61	3,148.92	0.00	0.00	0.00
10,800.00	90.00	178.64	7,797.00	-3,248.01	76.98	3,248.92	0.00	0.00	0.00
10,900.00	90,00	178.64	7,797.00	-3,347.98	79.35	3,348.92	0.00	0.00	0.00
11,000.00	90.00	178.64	7,797.00	-3,447.95	81.72	3,448.92	0.00	0.00	0.00
11,100.00 ⁽	90.00 90.00	178.64 178.64	7,797.00 7,797.00	-3,547.92 -3,647.89	84.09 86.46	3,548.92 3,648.92	0.00 0.00	0.00	0.00 0.00
11,200.00	90.00	170.04	7,797.00		00.40	3,040.92			
11,300.00	90.00	. 178.64	7,797.00	-3,747.87	88.82	3,748.92	0.00	0.00	0.00
11,400.00	90.00	178.64	7,797.00	-3,847.84	91.19	3,848.92	. 0.00	0.00	0.00
- 11,500.00	90.00	178.64	7,797.00	-3,947.81	93.56	3,948.92	0.00	0.00	0.00
11,600.00 11,700.00	90.00 90.00	178.64 178.64	7,797.00 7,797.00	-4,047.78 -4,147.75	95.93 98.30	4,048.92 4,148.92	0.00 0.00	0.00 0.00	0.00 0.00
11,800.00	90.00	178.64	7,797.00	-4,247.73	100.67	4,248.92	0.00	0.00	0.00
11,900.00	90.00	178.64	7,797.00	-4,347.70	103.04	4,348.92	0.00	0.00	0.00 .
12,000.00 12,100.00	90.00 90.00	178.64 178.64	7,797.00 7,797.00	-4,447.67 -4,547.64	105.41 107.78	4,448.92 4,548.92	0.00 0.00	0.00 0.00	0.00 0.00
12,200.00	90.00	178.64	7,797.00	-4,647.61	110.15	4,648.92	0.00	0.00	0.00
12,300.00	90,00	178,64	7.797.00	-4,747.58	112.52	4,748.92	0.00	0.00	0.00
12,349.68	90.00	178.64	7,797.00	-4,797.25	113.69	4,798.60	0.00	0.00	0.00
HL Exit Point			The Andrew States		·			- Intelligible	
12,400.00	90.00	178.64	7,797.00	-4,847.56	114.89	4,848.92	0,00	0.00	0.00
12,499.73	90.00	178.64	7,797.00	-4,947.26	117.25	4,948.65	0.00	0.00	0.00
TD at 12499.73	Sector Sector	Sector States	· · · · · · · · · · · · · · · · · · ·		1	and a start of the start of	andr Shigh A	an an an an a	
							•		

Shape: (i) (i) (bearing x (ush) (ush 0.00 0.00 7,641.05 -180.00 4.30 4 enter bv 0.03usft at 7691.09usft MD (7641.05 TVD, -180.00 N, 4.27 E) 530,342.60 32° 7' 17.779 N 407,976.30

- Point	.er by 0.03t	1511 at 7091		7041.05 170, -	180.00 N, 4.2	/ =)			
PBHL (#4H) - plan hits target center	90.00	178.64	7,797.00	-4,947.26	117.25	403,209.04	530,455.55	32° 6' 30.599 N	104° 14' 5.899 W
- Rectangle (sides W0.0	D H30.00 D	4,375.69)					•		

PP (#4H)

nion

1268.25

COMPASS 5000.1 Build 74

104° 14' 7.162 W

1

Pla	anni	ng I	Repo	ort
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Company OXX Project Eddy Site Peac Well Peac Wellbore OH	County INM (NAD)2 County INM (NAD)2 hes 19 Fed 4H hes 19 Fed 4H	7 NME)	MD Refer		Vell'Peaches 19 Fe (B=24' @ 3246 90u (B=24' @ 3246 90u G=24' @ 3246 90u G=10 Vinimum Curvature	sft (H&P 474)
Plan Annotations						
Measured to the Measured to		Local Coordin				
(usft) 4	usti) (usti)	+N/-S (usft)	11- TA- HO LAUNE AND A 1- 3 - 4	Comment in the second		
7,224.04	7,224.04	0.00	0.00	Start DLS 10.00 TFO 178.6	4	
7,691.12	7,641.08	-180.02	4.27	HL Entry Point		
8,124.04	7,797.00	-572.80	13.58	Start 4375.69 hold at 8124.	04 MD	
12,349.68	7,797.00	-4,797.25	113.69	HL Exit Point		
12,499.73	7,797.00	-4,947.26	117.25	TD at 12499.73		

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COMPASS 5000.1 Build 74

OXY USA Inc. Peaches 19 Federal

Casing Design Assumptions:

Burst Loads

CSG Test (Surface)

- Internal: Displacement fluid + 70% CSG Burst rating
- External: Pore Pressure from section TD to surface

CSG Test (Intermediate)

- Internal: Displacement fluid + 70% CSG Burst rating
- External: Pore Pressure from the Intermediate hole TD to Surface CSG shoe and MW of the drilling mud that was in the hole when the CSG was run to surface.

CSG Test (Production)

- Internal: Fresh water displacement fluid + <u>80%</u> CSG Burst rating
- External: Pore Pressure from the well TD the Intermediate CSG shoe and MW of the drilling mud that was in the hole when the CSG was run to surface

Gas Kick (Surface/Intermediate)

- Internal: Gas Kick based on Pore Pressure or Fracture Gradient @ CSG shoe with a gas 0.115psi/ft Gas gradient to surface while drilling the next hole section (e.g. Gas Kick while drilling the production hole section is a burst load used to design the intermediate CSG)
- External: Pore Pressure from section TD to previous CSG shoe and MW of the drilling mud that was in the hole when the CSG was run to surface

Stimulation (Production)

- Internal: Displacement fluid + Max Frac treating pressure (not to exceed 80% CSG Burst rating)
- External: Pore Pressure from the well TD to the Intermediate CSG shoe and 8.5 ppg MWE to surface

Collapse Loads

Lost Circulation (Surface/Intermediate)

- Internal: Losses experienced while drilling the next hole section (e.g. losses while drilling the production hole section are used as a collapse load to design the intermediate CSG). After losses there will be a column of mud inside the CSG with an equivalent weight to the Pore Pressure of the lost circulation zone
- External: MW of the drilling mud that was in the hole when the CSG was run

Cementing (Surface/Intermediate/Production)

- Internal: Displacement Fluid
- External: Cement Slurries to TOC, MW to surface

Full Evacuation (Production)

- Internal: Atmospheric Pressure
- External: MW of the drilling mud that was in the hole when the CSG was run

Tension Loads

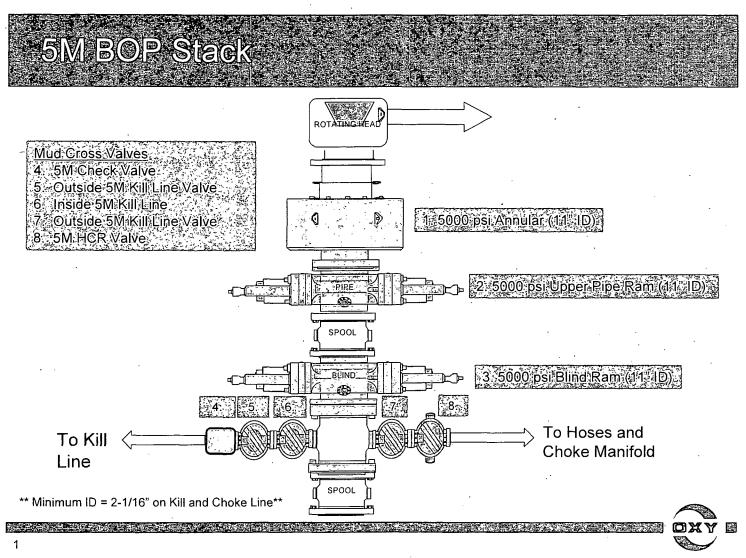
Running CSG (Surface/Intermediate/Production)

• Axial load of the buoyant weight of the string plus either 100 klb over-pull or string weight in air, whichever is less

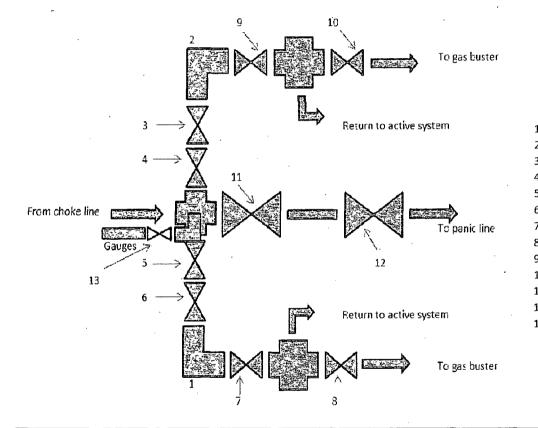
Green Cement (Surface/Intermediate/Production)

Axial load of the buoyant weight of the string plus the cement plug bump pressure (Final displacement pressure + 500 psi)

Burst, Collapse and Tensile SF are calculated using Landmark's Stress Check (Casing Design) software.

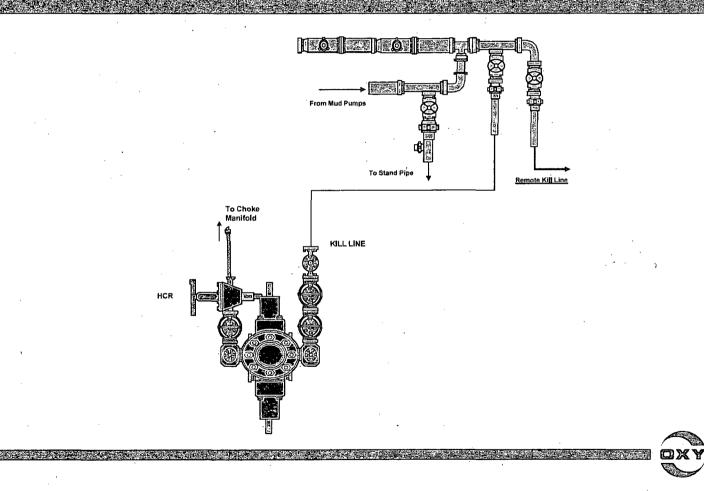


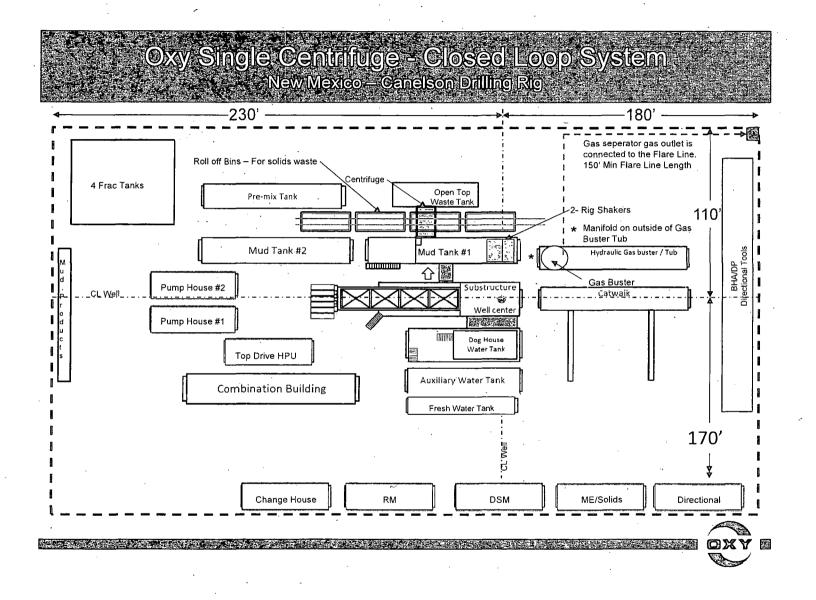
5M Choke Panel



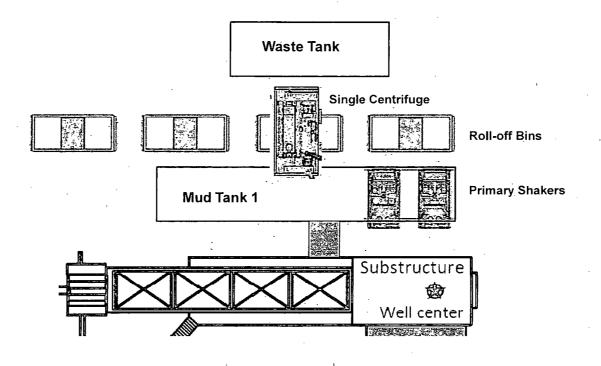
POWER CHOKE
 MANUAL CHOKE
 2 1/16" CHOKEMANIFOLD VALVE
 3" CHOKEMANIFOLD VALVE
 3" CHOKEMANIFOLD VALVE
 13- 2 1/16 CHOKE MANIFOLD VALVE

10M Remote Kill Line Schematic





Oxy Single Centrifuge - Closed Loop System



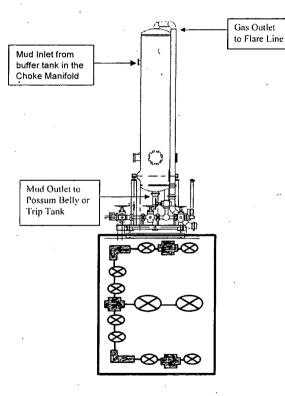
oxy 3

Choke Manifold — Gas Separator New Mexico — Canelson Drilling Rig

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Choke Manifold – Gas Separator (Side View)



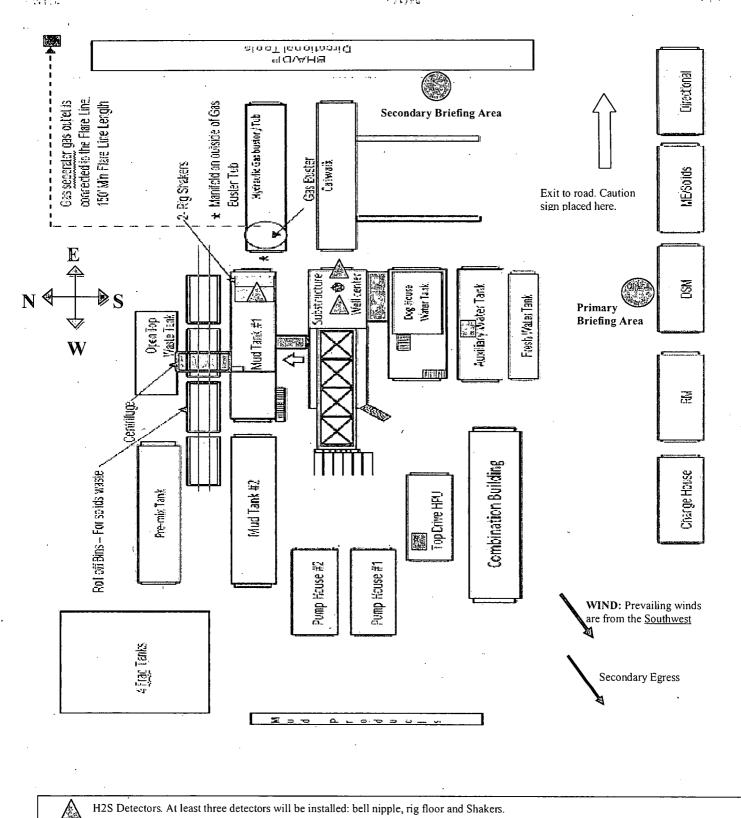


Permian Drilling Hydrogen Sulfide Drilling Operations Plan Peaches 19 Federal 4H

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.



H2S Detectors. At least three detectors will be installed: bell nipple, rig floor and Shakers.

Briefing Areas. At least two briefing areas will be placed, 90 deg off.

Wind direction indicators. Visible from rig floor and from the mud pits area.

A gas buster is connected to both the choke manifold and flowline outlets.

PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME:	OXY USA Inc.
LEASE NO.:	NMNM-109756
WELL NAME & NO.:	Peaches 19 Federal 4H
SURFACE HOLE FOOTAGE:	0150' FNL & 0660' FWL
BOTTOM HOLE FOOTAGE	0180' FSL & 0660' FWL
	Section 18, T. 25 S., R 27 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.

⊠ Drilling

Cement Requirements Medium Cave/Karst Logging Requirements Waste Material and Fluids

· Page 1 of 7

DRILLING

A. DRILLING OPERATIONS REQUIREMENTS

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

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

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 the area, it is always a potential hazard. Operator has stated that they will have monitoring equipment in place prior to drilling out of the surface shoe. If Hydrogen Sulfide is encountered, report measured amounts and formations to the BLM.
- 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. If the drilling rig is removed without approval – an Incident of Non-Compliance will be written and will be a "Major" violation.
- 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 GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

B. CASING

Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

Wait on cement (WOC) time prior to drilling out 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. DURING THIS WOC TIME, NO DRILL PIPE, ETC. SHALL BE RUN IN THE HOLE. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. IF OPERATOR DOES NOT HAVE THE WELL SPECIFIC CEMENT DETAILS ONSITE PRIOR TO PUMPING THE CEMENT FOR EACH CASING STRING, THE WOC WILL BE 30 HOURS. 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.

Medium Cave/Karst

Possible water flows in the Salado and Delaware. Possible lost circulation in the Delaware.

- 1. The 10-3/4 inch surface casing shall be set at approximately 350 feet (a minimum of 25 feet into the Rustler Anhydrite and above the salt) and cemented to the surface. If salt is encountered, set casing at least 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. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job 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.

Formation below the 10-3/4 inch shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe and the mud weight for the bottom of the hole. Report results to BLM office.

- 2. The minimum required fill of cement behind the **7-5/8** inch intermediate casing, which shall be set at approximately **1950** feet, is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst.

If cement does not circulate to surface on the intermediate casing, the cement on the production casing must come to surface.

Formation below the 7-5/8 inch shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe (not the mud weight required to prevent dissolving the salt formation) and the mud weight for the bottom of the hole. Report results to BLM office.

Centralizers required on horizontal leg, must be type for horizontal service and a minimum of one every other joint.

3. The minimum required fill of cement behind the 5-1/2 X 4-1/2 inch production casing is:

Cement as proposed by operator. Operator shall provide method of verification.

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.

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 flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor. If the BLM inspector questions the straightness of the hose, a BLM engineer will be contacted and will review in the field or via picture supplied by inspector to determine if changes are required (operator shall expect delays if this occurs).
- 3. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 5000 (5M) psi (Installing 10M testing to 5,000 psi).
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Operator shall perform the intermediate casing integrity test to 70% of the casing burst. This will test the multi-bowl seals.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.

5M system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.

- 4. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - b. The tests shall be done by an independent service company utilizing a test plug **not a cup or J-packer**.
 - c. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock with a corresponding chart (i.e. two hour clock-two hour chart, one hour clock-one hour chart).
 - d. The results of the test shall be reported to the appropriate BLM office.
 - e. 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.
 - f. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.

D. DRILL STEM TEST

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

E. WASTE MATERIAL AND FLUIDS

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

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

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