	UNITED STATES	S OCD NTERIOR	Artesia	FORM OMB N Expires	APPROVED IO. 1004-0135 : July 31, 2010		
HHH SUND	F	5. Lease Serial No. NMNM110831					
Do not us abandoned	-	6. If Indian, Allottee or Tribe Name					
SUBMIT IN	TRIPLICATE - Other instruc	ctions on reverse side.		7. If Unit or CA/Agre	eement, Name and/or		
1. Type of Well Image: Market Strength Stre] Other			8. Well Name and No BANK 18 FEDEF	AL COM. 1H		
2. Name of Operator OXY USA INC.	Contact: E-Mail: david_stev	DAVID STEWART wart@oxy.com		9. API Well No. 30-015-41447			
3a. Address P.O. BOX 50250 MIDLAND, TX 79710		3b. Phone No. (include area con Ph: 432-685-5717 Fx: 432-685-5742	de)	10. Field and Pool, or CULEBRA BLU	FExploratory		
4. Location of Well (Footage, Se	ec., T., R., M., or Survey Description	a)		11. County or Parish,	and State		
Sec 18 T23S R29E NWN 32.312309 N Lat, 104.029	W 133FNL 485FWL 9997 W Lon			EDDY COUNT	Y, NM		
12. CHECK A	APPROPRIATE BOX(ES) TO	O INDICATE NATURE OF	F NOTICE, REI	PORT, OR OTHE	R DATA		
TYPE OF SUBMISSION		TYPE	OF ACTIÓN				
Notice of Intent	☐ Acidize	Deepen	Productio	n (Start/Resume)	□ Water Shut-0		
Subsequent Report	Casing Repair	Fracture Treat New Construction	\square Reclamat	ion	Well Integrit		
Final Abandonment Notic	ce Change Plans	Plug and Abandon	Temporar	orarily Abandon			
	Convert to Injection	🗖 Plug Back	U Water Dis	Disposal			
following completion of the inve	olved operations. If the operation re-	the Bond No. on file with BLM/B sults in a multiple completion or re- ed only after all requirements incl	IA. Required subsecompletion in a new	equent reports shall be w interval, a Form 316	filed within 30 days 50-4 shall be filed one		
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Additional data for EC transaction #212444 that would not fit on the form

32. Additional remarks, continued

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

4. The Surface and Intermediate casings strings will be tested to 70% of their burst rating for 30 minutes. This will also test the seals of the lock down pins that hold the pack-off in place in the Multibowl wellhead system.

5. The maximum anticipated pressure at bottom is between 3900-4000 psi (0.46 psi/ft pore pressure gradient).

a.Surface Casing-11-3/4" 42# H-40 ST&C new csg @ 0-250', 14-3/4" hole w/ 8.6# mud

Coll Rating (psi)-1070 Burst Rating (psi)-1980 SF Coll-9.68 SF Burst-7.92 SF Ten-2.01

b.Intermediate Casing-8-5/8" 32# J-55 LT&C new csg @ 0-2730', 10-5/8" hole w/ 10.2# mud

Coll Rating (psi)-2530 Burst Rating (psi)-3930 SF Coll-4.52 SF Burst-1.43 SF Ten-2.26

c.Production Casing 5-1/2" 17# L-80 BT&C new csg @ 0-12968'M, 7-7/8" hole w/ 9.4# mud

Coll Rating (psi)-6290 Burst Rating (psi)-7740 SF Coll-1.50 SF Burst-1.42 SF Ten-1.71

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

a. Surface - Circulate cement to surface w/ 200sx PP cmt w/ 2% CaCl2, 14.8ppg 1.35 yield 1346# 24hr CS 150% Excess.

b. Intermediate - Circulate cement to surface w/_680sx HES light PP cmt w/ 5% Salt + .3% HR-800, 12.9ppg 1.88 yield 660# 24hs CS 125% Excess followed by 310sx PP cmt w/ 1% CaCl2, 14.8ppg 1.34 yield 2125# 24hr CS 125% Excess.

c. Production - Cement w/ 740sx Tuned Light cmt w/ 14.8#/sx Silicalite 50/50 Blend + 15#/sx Scotchlite HGS-6000 w/ .5#/sx CFR-3 + .15#/sx WG-17 + 1#/sx Cal-Seal 60 + 1.5# salt + 2% CaCl2 + .2#/sx HR-800 + .125#/sx Poly-E-Flake + 3#/sx Kol-Seal 10.2ppg 2.94 yield 947# 24hr CS 80% Excess followed by 740sx Super H cmt w/ 3#/sx salt + .4% CFR-3 + .5% Halad-344 + .2% HR-800, 13.2ppg 1.64 yield 1447# 24hr CS 40% Excess, Calculated TOC 2000'_____ Description of Cement Additives: Calcium Chloride, Cal Seal 60, Salt (Accelerator); Silicalite (Additive Material); CFR-3 (Dispersant); WG-17 (Gelling Agent); Bentonite, Schotchlite HGS-6000 (Light Weight Additive); Kol-Seal, Poly-E-Flake (Lost Circulation Additive); Halad-344 (Low Fluid Loss Control); HR-601, HR-800 (Retarder) Tbe above cement volumes could be revised pending the caliper measurement

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

Bank 18 Federal #1H 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: 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 + 500 psi)

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

Created by Neevia Document Converter trial version http://www.neevia.com







WFT Plan Report - X & Y's

Company: Field: Site: Well: Wellpath:	Occident Eddy Co, Bank 18 Bank 18 1	al Permian , NM (Nad 2 Fed #1H Fed #1H	Ltd. 27)			Dat Co- Ver Sec Sur	e: 6/28/2 ordinate(N tical (TVD tion (VS) R vey Calcul	2013 E) Reference:) Reference: leference: ation Method:	Time: C Wel SITI Wel Mini	8:32:17 I: Bank 18 E 3004.5 I (0.00N,0 mum Cur	9 Fed #1H, G .00E,98.56A vature	Page: 1 rid North ti) Db: Sybase
Plan:	Plan #2	2					Date Com	posed:	6/28/2	013		
Principal:	Yes						version: Tied-to:		From S	Surface		
Site:	Bank 18	8 Fed #1H										
Site Positio From: Position U Ground Le	on: Map ncertainty: evel:	: 297	No: Eas 0.00 ft 9.50 ft	rthing: 47 sting: 59	7467.00 f 3712.70 f	ft ft	Latitude: Longitude North Ref Grid Conv	32 : 104 erence: ergence:	18 4 1 4	4.311 N 7.989 W Grid 0.16 de	9	
Well:	Bank 18	3 Fed #1H					Slot Name	:				
Well Positi Position U	ion: ncertainty:	+N/-S +E/-W :	0.00 ft Noi 0.00 ft Eas 0.00 ft	rthing: 47 sting: 59	7467.00 f 3712.70 f	ft ft	Latitude: Longitude	32 : 104	18 4 1 4	4.311 N 7.989 W		
Wellpath:	1						Drilled Fr	ол):	Surfac	e		
Current D Magnetic I Field Stren	atum: Data: igth:	SITE 8/26/2 48	2013 3425 nT	Height	3004.50 f	ft	Tie-on Dep Above Sys Declinatio Mag Dip A	pth: tem Datum: n; Angle:	Mean :	0.00 ft Sea Level 7.54 de 60.14 de	9 9	
Vertical Se	ction: D	Pepth From	(TVD)	+N/- ft	s		+E/-W	U	Directi	on	•	
		0.00		0.00)		0.00		98.56			
Plan Sectio	n Informa	ution										
			(b) =						_			
MD ft	deg	Azım deg	ft	+N/-S ft	+E/-V ft	×	deg/100	Build ft deg/100ft o	Turn Jeg/100ft	deg	Target	
0.00 4600.00 4850.00 7355.00 7605.00 7759.29 8862.81 12698.24	0.00 0.00 5.00 0.00 0.00 88.28 88.28	0.00 0.00 220.25 220.25 0.00 0.00 95.97 95.97	0.00 4600.00 4849.68 7345.15 7594.83 7749.12 8465.00 8580.00	0.00 0.00 -8.32 -174.95 -183.27 -183.27 -255.55 -654.40	0.00 -7.04 -148.11 -155.15 -155.15 535.80 4348.70	0 0 4 1 5 5 0 0	0.00 0.00 2.00 0.00 2.00 0.00 8.00 0.00	0.00 0.00 2.00 0.00 -2.00 0.00 8.00 0.00	0.00 0.00 0.00 55.90 0.00 8.70 0.00	0.00 0.00 220.25 0.00 180.00 0.00 95.97 0.00	РВНL	
Survey												
MD ft	lacl deg	Azim deg	TVD ft	N/S ft	E/W ft		VS ft c	DLS leg/100ft	MapN ft		MapE ft	Comment
4600.00	0.00	0.00	4600.00	0.00	0.00		0.00	0.00	477467	.00	593712.70	Nudge
4700.00	2.00	220.25	4699.98	-1.33	-1.13		-0.92	2.00	477465	67	593711.57	
4800.00) 4.00 D 5.00	220.25	4799.84	-5.33	-4.51		-3.67	2.00	477461	.67	593708.19	1 I a l al
4900.00	5.00 5.00	220.25	4899.49	-11.65	-9.86		-5.73	0.00	477455	5.00 5.35	593705.86 593702.84	100
5000.00	5.00	220.25	4999.11	-18.30	-15.49		-12 59	0.00	477448	170	593697 21	
5100.00	5.00	220.25	5098.73	-24.95	-21.12		-17.17	0.00	477442	.05	593691.58	
5200.00	5.00	220.25	5198.35	-31.60	-26.75		-21.75	0.00	477435	5.40	593685.95	
5300.00	5.00	220.25	5297.97	-38.25	-32.38		-26.33	0.00	477428	1,75	593680.32	
5400.00	5.00	220.25	5397.59	-44.91	-38.02		-30.91	0.00	477422	2.09	593674.68	
5500.00	5.00	220.25	5497.21	-51.56	-43.65		-35.49	0.00	477415	.44	593669.05	
5600.00	5.00	220.25	5596.83	-58.21	-49.28		-40.07	0.00	477408	.79	593663.42	
5700.00	5.00	220.25	5696.45	-64.86	-54.91		-44.64	0.00	477402	. 14	593657.79	
5800.00 5900.00) 5.00) 5.00	220.25 220.25	5796.07 5895.69	-71.51 -78.17	-60.54 -66.17		-49.22 -53.80	0.00 0.00	477395	.49 1.83	593652.16 593646.53	
6000.00		220.25	5005 21	01 00	71 00		60.00	0.00	477000	140	502640.00	
6100.00	7 3.00 N 5.00	220.20	5332'21 8004 63	-04.02	-71.00		-30.30	0.00	4//382	. 18	593640.90	
0100.00) 5.00 3 5.00	220.20	6104.55	-31.47	-77.44 _83.07		-02.00	0.00	411310	1.99	503630.20	
6300.00	, 5.00	220.25	6294 17	-104.77	-88 70		-72 11	0.00	477362	23	593624.00	
6400.00	5.00	220.25	6393.78	-111.43	-94.33		-76.69	0.00	477355	.57	593618.37	
					2			2.00			2000,0,0,0	







WFT Plan Report - X & Y's

Company: C Field: E Site: B Well: B Wellnath: 1	occidenta ddy Co, ank 18 F ank 18 F	I Permian NM (Nad 2 ed #1H ed #1H	Ltd. 27)			Date: 6/26 Co-ordinate Vertical (TV Section (VS) Survey Calc	3/2013 (NE) Reference: 'D) Reference: Reference: ulation Method:	Time: 08:32:1 Well: Banl SITE 3004 Well (0.00 Minimum (17 < 18 Fed #1H, Gi 4.5 N,0.00E,98.56A; Curvature	Page: rid Nor zi) Db:	2 th Svbase
Samon											•
Survey				N/0	5.411		b ¥ 0				• •
MD ft	deg	Azım deg	ft	n/s ft	E/₩ ft	vs ft	deg/100ft	MapN ft	Mape: ft		Comment
6500.00	5.00	220.25	6493.40	-118.08	-99.96	-81.27	0.00	477348.92	593612.74		
6700.00	5.00	220.25	6692.64	-124.75	-103.39	-00.00	0.00	477335 62	593607.11		
6800.00	5.00	220.20	6792.04	-138.03	-116.85	-90.43	0.00	477328 97	593595 85		
6900.00	5.00	220.25	6891.88	-144.69	-122.49	-99.59	0.00	477322.31	593590.21		
7000 00	5 00	000.05	0004 50	454.04	400.40	404.40		477046.00			
7000.00	5.00	220.25	5991.50 7001.12	-151.34	-128.12	-104,16	0.00	477315.00	593584.58		
7200.00	5.00	220.25	7190 74	-164 64	-139.38	-113 32	0.00	477302.36	593573.32		
7300.00	5.00	220.25	7290.36	-171 29	-145.01	-117 90	0.00	477295 71	593567.69		
7355.00	5.00	220.25	7345.15	-174.95	-148.11	-120.42	0.00	477292.05	593564.59	Drop	
7400 00	4 10	220 25	7390.01	-177 68	.150.42	-122.29	2.00	477280 32	503562 28		
7500.00	2.10	220.25	7489.86	-181.80	-153.91	-125.13	2.00	477285 20	593558.79		
7605.00	0.00	0.00	7594 83	-183 27	-155 15	-126.14	2.00	477283 73	593557.55	Hold	
7700.00	0.00	0.00	7689.83	-183.27	-155.15	-126.14	0.00	477283.73	593557.55		
7759.29	0.00	0.00	7749.12	-183.27	-155.15	-126.14	0.00	477283.73	593557.55	KOP	
· 7800.00	3.26	95.97	7789.81	-183.39	-154.00	-124.99	8 00	477283.61	593558.70		
7850.00	7.26	95.97	7839.59	-183.87	-149.45	-120.41	8.00	477283.13	593563.25		
7900.00	11.26	95.97	7888.93	-184.71	-141.45	-112.38	8.00	477282.29	593571.25		
7950.00	15.26	95.97	7937.59	-185.90	-130.05	-100.93	8.00	477281.10	593582.65		
8000.00	19.26	95.97	7985.33	-187.44	-115.30	-86.11	8.00	477279.56	593597.40		
8050.00	23.26	95.97	8031.92	-189.33	-97.27	-68.01	8.00	477277.67	593615.43		
8100.00	27.26	95.97	8077.13	-191.55	-76.06	-46.70	8.00	477275.45	593636.64		
8150.00	31.26	95.97	8120.74	-194.09	-51.76	-22.29	8.00	477272.91	593660.94		
8200.00	35.26	95.97	8162.54	-196.94	-24.50	5.09	8.00	477270.06	593688.20		
8250.00	39.20	92.97	8202.33	-200.09	5.60	35.32	8.00	4/7200.91	593718.30		
8300.00	43.26	95.97	8239.91	-203.52	38.39	68.25	8.00	477263.48	593751,09		
8350.00	47.26	95.97	8275.10	-207.21	/3./0	103.72	8.00	477259,79	593786.40		
8450.00	55.26	95.97	9227 62	-211.10	151 21	141.00	8.00	411200.00	593624.07		
8500.00	50.20	05.07	9364.67	219.32	101.21	222 69	8.00	411231.00	502005.91		
0500.00	33.20	33.91	0004.01	-215.10	100.00	223.30	0.00	411241.00	383843.13		
8550.00	63.26	95.97	8388.71	-224.26	236.62	267.37	8.00	477242.74	593949.32		
8600.00	67.26	95,97	8409.63	-228.98	281.78	312.72	8.00	477238.02	593994.48		
8550.00	71.20	95.97	8427.34	-233.84	328.27	359.42	8.00	477233.16	594040.97		
8750.00	79.26	95.97 95.97	8452.77	-243.90	424.38	407.24	8.00	477223.10	594137.08		
2022.00	02.00	00.07	0400.07	040.04	470 50	505 od		477047.00	50 4400 00		
8850.00	87.20	95.97	8464 50	-249.04	473.02 522.07	505.31	8.00	477217.90	594186.22		
8862.81	88 28	95.97	8465.00	-20-4.22	635.90	567.97	8.00	477011 45	504233.07	ID	
8900.00	88 28	95.97	8466 11	-259.42	572 77	605.00	0.00	477207 58	594285 47	LF	
9000.00	88.28	95,97	8469.11	-269.82	672.18	704.86	0.00	477197.18	594384.88		
9100 00	88 28	95 97	8472 11	-280.22	771 59	804 71	0.00	477186 78	504484 29		
9200.00	88.28	95.97	8475.11	-290.62	871.01	904.56	0.00	477176.38	594583.71		
9300.00	88.28	95.97	8478.11	-301.01	970.42	1004.41	0.00	477165.99	594683.12		
9400.00	88.28	95.97	8481.11	-311.41	1069.83	1104.27	0.00	477155.59	594782.53		
9500.00	88.28	95. 9 7	8484.10	-321.81	1169.25	1204.12	0.00	477145.19	594881.95		
9600.00	88.28	95.97	8487.10	-332.21	1268.66	1303.97	0.00	477134.79	594981.36		
9700.00	88.28	95.97	8490.10	-342.61	1368.07	1403.83	0.00	477124.39	595080.77		
9800.00	88.28	95.97	8493.10	-353.01	1467.48	1503.68	0.00	477113.99	595180.18		
9900,00	88.28	95.97	8496.10	-363.41	1566.90	1603.53	0.00	477103.59	595279.60		
10000.00	88.28	95.97	8499.10	-373.81	1666.31	1703.39	0.00	477093.19	595379.01		
10100.00	88.28	95.97	8502.09	-384.21	1765.72	1803.24	0.00	477082.79	595478.42		
10200.00	88.28	95.97	8505.09	-394.61	1865.13	1903.09	0.00	477072.39	595577.83		

OXY



WFT Plan Report - X & Y's

						4				0.00.00		
Company: Field: Site: Well: Wellpath:	Occidenta Eddy Co, Bank 18 F Bank 18 F 1	al Permian L NM (Nad 27 Fed #1H Fed #1H	ld.)			Date: Co-ordi Vertica Section Survey	6/28/2013 inate(NE) I I (TVD) Re (VS) Refer Calculation	Reference ference: rence: n Method	Time: 08:3 :: Well: B SITE 3 Well (0. I: Minimu	2:17 ank 18 Fed #1H 004.5 .00N,0.00E,98.5 m Curvature	Pag , Grid N 6Azi) Db:	e: 3 orth : Sybase
Survey												
MD ft	Inc) deo	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DL dea/	.S 100ft	MapN ft	MapE ft		Comment
10300.0	00.00	05.07		0 405	01 1064 6	E 2001		0.00	477061.00	505677	26	
10300.0	0 88 28	95.97	8511 0	9 -405. 9 -415	40 2063.9	5 2002 6 2103	2.95	0.00	477051.95	59507761	36	
10500.0	0 88.28	95.97	8514.0	9 -425.	80 2163.3	7 2202	2.65	0.00	477041.20	595876.0		
10600.0	0 88.28	95.97	8517.0	9 -436.	20 2262.7	8 2302	2.50	0.00	477030.80	595975.4	18	
10700.0	0 88.28	95.97	8520.0	8 -446.	60 2362.2	0 2402	2.36	0.00	477020.40	596074.	90	
10800.0	0 88.28	95.97	8523.0	8 -457.	00 2461.6	1 2502	2.21	0.00	477010.00	596174.	31	
11000.0	0 88.28	95.97	8520.00 8520 A	D -407. B -477	40 2001.0 80 2660.4	2 2004	1.00	0.00	476999.00	596373	12	
11000.0	0 00.20	33.31	0323.00		2000.4	5 210	1.92	0.00	470505.20	1 390373.	15	
11100.0	0 88.28	95.97	8532.0	8 -488.	20 2759.8	5 2801	.77	0.00	476978.80	596472.	55	
11200.0	0 88,28	95.97	8535.0	8 -498.	60 2859.2	6 2901	.62	0.00	476968.40) 596571.	96	
11300.0	0 88.28	95.97	8538.0	B -509.	00 2958.6	7 3001	1.48	0.00	476958.00	596671.	37	
11400.0	0 88.28	95.97	8541.0	7 -519. 7 500	39 3058.0	9 3101	1.33	0.00	476947.61	596770.	79	
11500.0	0 88.28	95.97	8544.0	/ -529.	/9 315/.5	0 3201	1.18	0.00	476937.21	596870.7	20	
11600.0	0 88.28	95.97	8547.0	7 - 540.	19 3256.9	1 3301	1.04	0.00	476926.81	596969.	61	
11700.0	0 88.28	95.97	8550.0	7 -550.	59 3356.3	2 3400).89	0.00	476916.41	597069.	02	
11800.0	0 88.28	95.97	8553.0	/ -560. 7 574	99 3455.7	4 3500 5 3600),/4	0.00	476906.01	597168.4	14	
12000.0	0 00.20	95.97	8559.0	7 -571. S -581	39 3035.1 79 3654.5	5 3000	1.09 1.45	0.00	4/0090.01	5972073	26 26	
		00.07						0.00	4,0000.21			
12100.0	0 88.28	95.97	8562.00	6 -592 .	19 3753.9	7 3800	0.30	0.00	476874.81	597466.	57	
12200.0	0 00.20	95.97	8568 0	3 -002. 6 -612	09 3053.3 00 3052.8	9 3900), (5) (34	0.00	476854.41	507665	J9 50	
12300.0	0 88.28	95.97	8571 06	5 -623	39 3932.0 39 4052.2	1 4000	2.01	0.00	476843.61	597003.	טע 1 ב	
12500.0	0 88.28	95.97	8574.00	5 -633.	78 4151.6	2 4199	9.71	0.00	476833.22	597864.	32	
12600.0	0 88.28	95.97	8577.0	5 -644.	18 4251.0	4 4299	9.57 Lee	0.00	476822.82	597963.	74	LUI.
12050.2	4 00.20	50.57	0300.00	-004.	40 4340.7	0 4397	.00	0.00	470012.00	390001.4	+ 0 FD	1) L .
Targets											_	
Name		Description		TVD	+N/-S	+E/-W	Map Northing	Ma g East	ap < ting Deg	Latitude> Min Sec	حمد L Deg M	ongitude> lin Sec
ועפט		Dip.	Dir.	ft 2590.00	11 654.40 4	ft 249.70	ft 476942.6	ft n soons	21 40 22	19 27 710 N	104 (1 E7 220 M
PORE			c.	5560.00	-004,40 4	340.70	470012.0	0 59600	J1.40 J2	10 3/./ 10 N	104 (J 57.556 W
Casing Poi	nts											
MD	тур	Diamete	- и	ola Siza	Nome							
, MD	170	Diamete	, ,	ore size	Name							
Annotation	1											
MD	TVD											
11	11 4600.00	NJ alar a										
4000.00	4000.00	Nuoge Hold										
7355.00	7345.15	Drop										
7605.00	7594.83	Hold										
7759.29	7749.12	KOP										
8862.81	8465.00	LP										
12698.24	8580.00	FRH										







Company: Occidental Permian Ltd. Date: 6/28/2013 Time: 08:32:17 Page: 4 Eddy Co, NM (Nad 27) Bank 18 Fed #1H Bank 18 Fed #1H Field: Co-ordinate(NE) Reference: Well: Bank 18 Fed #1H, Grid North Vertical (TVD) Reference: SITE 3004.5 Site: Well (0.00N,0.00E,98,56Azi) Well: Section (VS) Reference: Wellpath: 1 Survey Calculation Method: Minimum Curvature Db: Sybase Formations TVD MD Formations Lithology Dip Angle Dip Direction Field: Eddy Co, NM (Nad 27) Map System: US State Plane Coordinate System 1927 Map Zone: New Mexico, Eastern Zone Geo Datum: NAD27 (Clarke 1866) Coordinate System: Well Centre Sys Datum: Mean Sea Level Geomagnetic Model: IGRF2010

District 1 1625 N. French, Dr., Hobbe, NI4 88240 Phones: (375) 350-6161 Proc: (575) 359-0726 District II 811 S. Frent Sz., Arecia, NM 88210 Phones: (575) 748-1245 Faz. (575) 748-9720 District III 1000 Rob Bannes Road, Asteo, NM 87410 Phone: (305) 334-6178 Faz: (505) 334-6170 Descrite IV 1220 S. B. Prencis Dr., Senta Pe, NM 87505 Phones: (305) 476-3460 Per: (505) 476-3462

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State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

AMENDED REPORT

	WELL LOCATION AND ACREAGE DEDICATION PLAT															
	API N	lumber	ber Pool Cade Pool Name									- 1				
30-0	215-6	1144	.41 15011 Culebra Blutt Bone Spri.									ing, Douth				
Prope	rty Code					-	Property	Name	-					н	Vell Number	
399	157			متحد مند مند مرجع		BAI	<u>VK "1</u>	<u>8 F</u>	EDĘ	ERAL (OM	•			IH	
OGR	UD No.					017	Opension		~				[_	Elevation	
ا جا ا	696					<u> </u>	Y US	A INC]	2	979.5	
					·····	Surf	ace L	ocation	1							
UL ar lot no.	Section	Town	ship		Range		Lot Ida	Feet from	n the	North/South I	ioe Fe	et from the	East/We	at line	County	
1	18	23 SC	OUTH	29 E	AST, N	М . Р. М .		133	ľ	NORTH		485'	WES	T	EDDY	
	•			Bott	om Ho	le Locati	on If I	Differe	ent F	From Suri	ace					
UL or lot no.	Section	Town	ship	1	Range		Lot Ida	Feet from	n the	North/South I	ine Fe	et from the	East/We	st line	County	
A	18	23 SC	DUTH	29 E	AST, N	M.P.M		660)'	NORTH	I	350'	EAS	T	EDDY	
Dedicated	Acres	Joint or	Infill	Consolidat	ian Code	Order No.	L	L			l				L	
1514		•)														
1 31.7	321	<u>. N</u>	l.							** * *						
NO BLIOWA	DIC WILL	DC ASSI	gned to	tais comp			tesis da	ve been	cons	solidated or	8 001	i-standard	unit has b	een appi	roved by the	
<i>uvision.</i>	33' <u>a</u>	RID AZ 26	<u>= 165°1</u> 14.7	<u>o'</u>												
gminne.	yhm.	mm	mm.	mmm	mma	mmm	mm	7777777	m	mmm	mn	0	PERATOR	ERTIFIC/	ATION	
485	1370 1///////	<u>uus</u>	///////		uuna						, '	/ A	.			
597	9-									8						
	\mathbf{i}		6	RID AZ =	95*35° -	4257.7					6 1			-		
	1										350%		e kanal (makadhan d			
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		XĨ	PRI	LIFCT AREA		330'								a an		
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1/								1				Amatérica	terms in the state	ins.		
SURFACE	E LOCATIO	N	PENE	TRATION PO	Ти			6	OTTON	HOLE LOCA	TION		an	1_	-laliz	
NEW ME	2000 EASI		NEW J	NAD 1927	ат				NEV	NAD 1927		La fill Thatis				
X=51	93712.7 32.312308	5	LAT X	=593823.9 N 32 31164	74"			1	LAT	Devid Start - So Ra Adv.						
LONG .: W	104.02999	69	LONG .:	W 104.0296	394				LONG .:	W 104.0159	275	Primed Nam	STELL	<u>, s</u>	K.NEJ. Men.	
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PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME:	OXY USA Inc.
LEASE NO.:	NMNM-110831
WELL NAME & NO.:	Bank 18 Federal Com 1H
SURFACE HOLE FOOTAGE:	0133' FNL & 0485' FWL
BOTTOM HOLE FOOTAGE	0660' FNL & 0350' FEL
LOCATION:	Section 18, T. 23 S., R 29 E., NMPM
COUNTY:	Eddy County, New Mexico
API:	30-015-41447

I. 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. Hydrogen Sulfide has been reported, but no measurements have been recorded. Operator has stated that they will have monitoring equipment in place prior to drilling out of the surface shoe. If Hydrogen Sulfide is encountered, please report measurements 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 **11-3/4** inch surface casing shall be set at approximately **250** 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 11-3/4" 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.

NOTE: If operator chooses to utilize a contingency DVT plan, a sundry is required.

- 2. The minimum required fill of cement behind the **8-5/8** inch intermediate casing, which shall be set at approximately **2730** 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 75% or greater lost circulation occurs while drilling the intermediate casing hole, the cement on the production casing must come to surface.

Formation below the 8-5/8" 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 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.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. Manufacturer representative shall install the test plug for the initial BOP test.
 - c. Operator shall perform the intermediate casing test to 70% of the casing burst. This will test the multi-bowl seals.
 - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.

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).
 - a. The tests shall be done by an independent service company utilizing a test plug **not a cup or J-packer**.
 - b. 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.
 - c. The results of the test shall be reported to the appropriate BLM office.
 - d. 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.
 - e. 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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