					12-1058
JUN 27 2013 SE	CREIARY.	s potash		· · · ·	
Form 3160-3 April 2004)		OCD Artes	ia .	FORM API OMB No. 10 Expires Marc	PROVED 104-0137 h 31, 2007
UNITED STATES DEPARTMENT OF THE I BUREAU OF LAND MAN	, NTERIOR AGEMENT	н Малана Малана		5. Lease Serial No. NMNMp82896	
APPLICATION FOR PERMIT TO	DRILL OR	REENTER		6. If Indian, Allotee or	Tribe Name
Ia. Type of work: 🚺 DRILL REENTE	ER		<u> </u>	7. If Unit or CA Agreem	ent, Name and No.
Ib. Type of Well: 🖌 Oil Well 🗌 Gas Well 💭 Other	Sing	gle Zone 🔲 Multij	ole Zone	8. Lease Name and We Nimitz 12 Federa	<sup>II No.</sup> 23768
2. Name of Operator OXY USA Inc.		16696		9. API Well No. 30-015-	1506
3a. Address P.O. Box 50250 Midland, TX 79710	3b. Phone No. 432-685	(include area code) -5717		10. Field and Pool, or Exp Poker Lake Dela	ware, NW <b>&lt; 96</b> 6
<ul> <li>4. Location of Well (Report location clearly and in accordance with an At surface 100 FSL 2033 FWL SESW(N)</li> <li>4. At proposed prod, zone 350 FNL 2052 FWL NENW(C)</li> </ul>	ry State requiremen	nts.*)		11. Sec., T. R. M. or Blk. Sec 12 T24S R3	and Survey or Area 0E
<ul> <li>4. Distance in miles and direction from nearest town or post office*</li> <li>14 miles southeast from Loving, NM</li> </ul>				12. County or Parish Eddy	13. State NM
<ul> <li>Distance from proposed*</li> <li>location to nearest</li> <li>property or lease line, finite</li> <li>(Also to nearest drig. unit line, if any)</li> </ul>	16. No. of ac 880ac	res in lease	17. Spacir 160a	g Unit dedicated to this wel	
<ol> <li>Distance from proposed location*</li> <li>to nearest well, drilling, completed, applied for, on this lease, ft.</li> <li>(138)</li> </ol>	19. Proposed 7945' V	Depth 12151' M	20. BLM/ NMB	BIA Bond No. on file	
<ol> <li>Elevations (Show whether DF, KDB, RT, GL, etc.) 3503.4' GL</li> </ol>	22. Approxim	ate date work will sta 06/15/2013	 rt*	23. Estimated duration 35 days	
	24. Attacl	nments			
<ol> <li>ne tollowing, completed in accordance with the requirements of Onshot</li> <li>Well plat certified by a registered surveyor.</li> <li>A Drilling Plan.</li> <li>A Surface Use Plan (if the location is on National Forest System SUPO shall be filed with the appropriate Forest Service Office).</li> </ol>	Lands, the	<ol> <li>A. Bond to cover t ltem 20 above).</li> <li>Dependence of the site authorized office</li> </ol>	ttached to the he operation specific inf	us torni: ins unless covered by an ex formation and/or plans as m	isting bond on file (see ay be required by the
25. Signature	Name (	Printed/Typed) David Stewart		· D	ate 2 (15/13
itle Regulatory Advisor	david_stew	art@øxy.com		•	
Approved by (Signature) /s/ Jesse J. Juen	Name	Print <b>fsTyJesse</b>	J. Ju	en c	<sup>ate</sup> JUN 2 0 2013
ittle STATE DIRECTOR	Office	STATE	DIRE(	CTOR	
Application approval does not warrant or certify that the applicant hold onduct operations thereon. Conditions of approval, if any, are attached.	ls legal or equita	ble title to those righ	nts in the sul	oject lease which would entr PROVAL FOR T	tle the applicant to WOYEARS
itle 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a citates any false, fictitious or fraudulent statements or representations as	rime for any per to any matter wi	son knowingly and thin its jurisdiction.	willfully to r	nake to any department or a	agency of the United
(Instructions on page 2)	-			· · · · · · · · · · · · · · · · · · ·	

SEE ATTACHED FOR CONDITIONS OF APPROVAL Appr

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Approval Subject to General Requirements & Special Stipulations Attached

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District I 1625 N. Franch Dr., Hobbs, NM 88240 Plane: (575) 393-6161 Fax: (575) 393-0720 District II 811 S. Firs St., Artesia, NM 88210 Phane: (575) 748-1283 Fax: (575) 748-9720 District III 1000 Rio Bruzzo Road, Aztec, NM 87410 Phane: (505) 334-6173 Fax: (505) 334-6170 District IV 1220 S. SI. Francis Dr., Santa Fe, NM 87505 Phane: (505) 476-3460 Fax: (505) 476-3462 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 Number 41506 Pool Code Pool Name NW 96046 30-015 Delaware Property Code Well Number Property Name 4H39655 "12" NIMITZ FEDERA OGRID No. Elevation Operator Name OXY USA INC. 3503.4' 16696 Surface Location UL or lot no. Section Township Range Lot Ida Feet from the North/South line Feet from the East/West line County 24 SOUTH N 12 30 EAST, N.M.P.M. 100' SOUTH 2033' WEST EDDY Bottom Hole Location If Different From Surface Lot Idn Feet from the North/South line East/West line UL or lot no. Section Township Range Feet from the County 12 24 SOUTH 30 EAST, N.M.P.M. 350' NORTH WEST EDDY С 2052' Dedicated Acres Joint or Infill Consolidation Code Order No. N 160 No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division. mm 4 OPERATOR CERTIFICATION BOTTOM HOLE LOCATION NEW MEXICO EAST NAD 1927 Y=450834.3 X=653821.1 LAT: N 32.23848137 LONG: W 103.8358384\* I hereby certify that the information contained herein is true and 2052 lese to the best of my knowledge and belief, and that this owns a working interest or unli ( in the land including the proposed bottom t to drill this well at this location pursuant to a control ch a mineral or working in rest or to a 330 ALL S ì 4793. 359°47' SURVEYOR PENETRATION POINT NEW MEXICO EAST NAD 1927 Y=446270.7 X=653837.8 I hereby certi plat was plo l) ade by n me is t AZ1502 LAT.: N 32.2259363 LONG.: W 103.8358528 GRID SEDate of Su PNAL LAND Signature and Se Professional Survey SURFACE LOCATION NEW MEXICO EAST NAD 1927 Y=446040.7 X=653838.7 2034' LAT.: N 32.2253041' LONG.: W 103.8358535' 2033 330 00 WO# 120911WL (KA)





VICINITY MAP



PROPOSED ROAD AND GO SOUTH FOR 0.1 MILES TO LOCATION.

VICINITY MAP

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1.4 MILES, TURN RIGHT ON CALICHE ROAD AND GO NORTH FOR 0.8 MILES, TURN LEFT AND GO WEST TO NORTHWEST FOR 0.3 MILES, TURN LEFT AND GO SOUTHWEST FOR 0.1 MILES, TURN LEFT ON PROPOSED ROAD AND GO SOUTH FOR 0.1 MILES TO LOCATION.



Proposed Flowline Route

Nimitz 12 Federal #4H - 1 Mile AOR



I WI HOR PLAT

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### OXY USA Inc Nimitz 12 Federal #4H APD Data

#### **OPERATOR NAME / NUMBER:** <u>OXY USA Inc</u>

#### LEASE NAME / NUMBER: <u>Nimitz 12 Federal #4H</u>

STATE: <u>NM</u> COUNTY: <u>Eddy</u>

SURFACE LOCATION: <u>100' FSL & 2033' FWL, Sec 12, T24S, R30E</u>

BOTTOM HOLE LOCATION: 350' FNL & 2052' FWL, Sec 12, T24S, R30E

APPROX GR ELEV: 3503.4'

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EST KB ELEV: <u>3527.4' (24' KB)</u>

#### 1. GEOLOGIC NAME OF SURFACE FORMATION a. Permian

#### 2. ESTIMATED TOPS OF GEOLOGICAL MARKERS & DEPTHS OF ANTICIPATED FRESH WATER, OIL OR GAS

Formation	TVD - RKB	Expected Fluids
T. Rustler	492	
T. Salt	862	
B. Salt	3952	
T. Lamar / B. Anhydrite	4167	
T. Bell Canyon	4207	Form Water
T. Cherry Canyon	5117	Oil/Gas
T. Brushy Canyon	6552	Oil/Gas
Target Brushy Canyon A2 Sand	7945	Oil/Gas

Fresh water may be present above the Rustler. Potential fresh water zones will be protected by the surface casing.

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#### LATERAL GREATEST PROJECTED TD: 12151' MD / 7945' TVD

#### **OBJECTIVE:** Brushy Canyon A2 Sand

#### 3. CASING PROGRAM

08	Surrace	Casing Ia	<u>u ma 17</u>	.5 noie	micu w.	un 0.40	ppg muu						
$\sum_{i=1}^{n}$	Hole Size	Interval	OD	Wt	Grada	Conn	ID	Condition	Burst	Collapse	Burst	Coll	Ten
SH	(in)	(ft)	(in)	(ppf)	Ulaue	Com	(in)	Condition	(psi)	(psi)	SF	SF	SF
$\mathcal{D}^{\mathbf{i}}$	17.5	520	13.375	48	H40	STC	12.715	New	1730	740	1.25	3.26	2.58
		5901											

#### Surface Casing ran in a 17.5" hole filled with 8.40 ppg mud

#### Intermediate Casing ran in a 12.25" hole filled with 10.2 ppg mud

Hole Size (in)	Interval (ft)	OD (in)	Wt (ppf)	Grade	Conn	ID (in)	Condition	Burst (psi)	Collapse (psi)	Burst SF	Coll SF	Ten SF
12.25	4200	9.625	36	J55	LTC	8.921	New	3520	2020	1.24	1.55	1.98

#### Production Casing ran in a 8.75" hole filled with 9.4 ppg mud

Hole Size	Interval	OD ·	Wt	Grade	Conn	ID	Condition	Burst	Collapse	Burst	Coll	Теп
(in)	(ft)	(in)	(ppf)	Oraue	Com	(in)	Condition	(psi)	(psi)	SF	SF	SF
8.75	12151	5.500	17	L80	BTC	4.892	New	7740	6290	1.72	1.62	1.84

Burst, Collapse and Tensile SF calculated using Stress Check Casing Design software using max. anticipated loads.

#### 4. CEMENT PROGRAM:

Interval	Amount sx	Ft of Fill	Туре	Gal/Sk	PPG	Ft <sup>3</sup> /sk	24 Hr Comp
Lead: 0' -234' (150% Excess)	240	234	Premium Plus cement with 4 % Bentonite (Light Weight Additive), 1% Calcium Chloride - Flake (Accelerator) and 0.125 lbs/sk Poly-E- Flake (Lost Circulation additive)	9.14	13.5	1.73	831
<b>Tail:</b> 590 234' - 520 (150% Excess)	400	286	Premium Plus cement with 1% Calcium Chloride – Flake (Accelerator)	6.36	14.8	1.34	1326

# Intermediate Interval 9 5/8 "

Interval	Amount sx	Ft of Fill	Туре	Gal/Sk	PPG	Ft <sup>3</sup> /sk	24 Hr Comp
Lead: 0' – 3487' (105% Excess)	1080	3487	Halliburton Light Premium Plus Cement with 3 lbs/sk Salt (Salt), 0.125 lbs/sk Poly-E-Flake (Lost Circulation additive) and 3 lbs/sk Kol- Seal (Lost Circulation Additive)	9.56	12.9	1.85	607
<b>Tail:</b> 3487' -4200' (105% Excess)	360	713	Premium Plus cement with 1% Calcium Chloride – Flake (Accelerator)	6.36	14.8	1.34	1650

### Production Interval $5\frac{1}{2}''$

Interval	Amount sx	Ft of Fill	Туре	Gal/Sk	PPG	Ft <sup>3</sup> /sk	24 Hr Comp
<b>St 3 - Lead:</b> 0' - 3880' (10% Excess)	560	3880	Halliburton Light Premium Plus: 3 lbm/sk Salt (Salt) 3 lbm/sk Kol-Seal (Lost Circulation Additive)	11.28	12.40	2.07	548
<b>St 3 - Tail:</b> 3880' – 4250' (200% Excess)	100	370	Premium Plus Cement: 94 lbm/sk Premium Cement (Cement)	6.34	14.80	1.33	2551
			POST TOOL SET AT 4250'				
<b>St 2 - Lead:</b> 4250' – 5737' (100% Excess)	360	1487	Halliburton Light Premium Plus: 5 lbm/sk Salt (Salt), 5 lbm/sk Kol-Seal (Lost Circulation Additive) and 0.2 % HR-601 (Retarder)	11.50	12.40	2.14	445 (500psi in 30hrs)

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<b>St 2 - Tail:</b> 5737' - 6000' (100% Excess)	100	263	Premium Cement: 94 lbm/sk Premium Cement (Cement)	6.34	14.80	1.33	2133
			DV TOOL SET AT 6000'	4		·	
St 1 - Lead: 6000' - 7000' (85% Excess)	230	1000	Halliburton Light Premium: 3 Ibm/sk Kol-Seal (Lost Circulation Additive), 3 Ibm/sk Salt (Salt), 0.4% HR- 601. (Retarder)	11.48	12.40	2.09	282 (500psi in 50hrs)
<b>St 1 - Tail:</b> 7000' - 12151' (50% Excess)	1180	: 5151	Super H Cement: 0.5% Halad(R)-344 (Low Fluid Loss Control), 0.4% CFR-3 (Dispersant), 5 Ibm/sk Kol-Seal (Lost Circulation Additive), 3 Ibm/sk Salt (Salt), 0.3% HR- 601 (Retarder)	8.35	13.20	1.68 ¢	1527

The volumes indicated above may be revised depending on caliper measurement.

#### 5. DIRECTIONAL PLAN

Please see attached directional plan

#### 6. PRESSURE CONTROL EQUIPMENT

Surface: None.

Intermediate and Production: 520' - 12151'M/7945'V

Intermediate and Production hole will be drilled with a 13-5/8" 10M three ram stack with a 5M annular preventer and a 5M Choke Manifold

a. All BOP's and associated equipment will be tested in accordance with Onshore Order #2 (250/5000 psi on rams for 10 minutes each and 250/3500 for 10 minutes for annular preventer, equal to 70% of working pressure) with a third party BOP testing service before drilling out the surface casing shoe. A multibowl wellhead system will be used in this well therefore the BOPE test will cover the test requirements for the Intermediate and Production sections

b. 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

c. Pipe rams will be function tested every 24 hours and blind rams will be tested each time the drill pipe is out of the hole. These functional tests will be documented on the daily driller's log. A 2" kill line and 3" choke line will be accommodated on the drilling spool below the ram-type BOP.

d. The BOPE test will be repeated after 21 days of the original test, on the first trip, if drilling the intermediate or production section takes more time than planned

e. Other accessory BOP equipment will include a Kelly cock, floor safety valve, choke lines, and choke manifold having a 5000 psi working pressure rating and tested to 5000 psi

f. The Operator also requests a variance to connect the BOP choke outlet to the choke manifold using a co-flex hose manufactured by Contitech Rubber Industrial KFT. It is a 3" ID x 35' flexible hose with a 10,000 psi working pressure. It has been tested to 15,000 psi and is built to API Spec 16C. Once the flex line is installed it will be tied down with safety clamps (certifications attached) g. BOP & Choke manifold diagrams attached

#### 7. MUD PROGRAM:

Depth	Mud Wt ppg	Vis Sec	Fluid Loss	Type System
0-520, 590	8.5-9.0	28 - 38	NC	Fresh Water / Spud Mud
520'-4200'	9.8 - 10.2	28 - 32	NC	NaCl Brine / Sweeps
4200' - 7000'	8.8-9.2	28 - 34	NC	Cut Brine / Sweeps
7000' – 12151'	9.2 - 9.4	32 - 50	< 18	Duo Vis / Salt Gel / Starch / PAC

<u>Remarks:</u> 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.

#### 8. AUXILIARY WELL CONTROL AND MONITORING EQUIPMENT

**a.** A full opening drill pipe stabbing valve having the appropriate connections will be on the rig floor unobstructed and readily accessible at all times.

#### 9. POTENTIAL HAZARDS:

- **a.** H2S detection equipment will be in operation after drilling out the surface casing shoe until the production casing has been cemented. Breathing equipment will be on location from drilling out the surface shoe until production casing is cemented. If H2S is encountered the operator will comply with Onshore Order #6.
- b. No abnormal temperatures or pressures are anticipated. The highest anticipated pressure gradient is **0.46 psi/ft.** Maximum anticipated bottom hole pressure is **3655 psi.**
- **c.** All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. Adequate flare lines will be installed off the mud/gas separator where gas may be flared safely.

#### **10. ANTICIPATED STARTING DATE AND DURATION OF OPERATIONS**

Road and location construction will begin after the BLM has approved the APD. Anticipated spud date will be as soon as possible after BLM approval and as soon as a rig will be available. Move in operations and drilling is expected to take 35 days. If production casing is run, then an additional 30 days will be needed to complete the well and construct surface facilities and/or lay flow lines in order to place well on production.

#### 11. WIRELINE LOGGING / MUD LOGGING / LWD

- a. GR-NEU-DEN-RESTIVITY from KOP to int/casing. GR-NEU to Surface.
- b. Mud loggers to be rigged up from intermediate casing shoe to TD
- c. Acquire GR while drilling, from KOP to TD

#### COMPANY PERSONNEL:

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<u>Name</u>	<u>Title</u>	Office Phone	<u>Mobile Phone</u>
Carlos Mercado	Drilling Engineer	(713)366-5418	(281) 455-3481
Sebastian Millan	Drilling Engineer Supervisor	(713)350-4950	(832) 528-3268
Roger Allen	Drilling Superintendent	(713)215-7617	(281) 682-3919
Douglas Chester	Drilling Manager	(713)366-5194	(713) 918-9124





### Weatherford Wft Plan Report X Y's.



Company: Occidental Permian Ltd Date: 1/24/2013 Time: 13.20.38 Page: 1 Field: Eddy CoNM.(Nad/27) Site: Nimitz 12 Fed #4H Well: Nimitz 12 Fed #4H Well: Nimitz 12 Fed #4H Well: Nimitz 12 Fed #4H Section (VS): Reference: Well (0:00N,0:00E;359:79Azi) Wellpath: 1 Del: Sybas Db: Sybase. **Date Composed:** 1/23/2013 Plan: Plan #3 Version: **Tied-to:** From Surface **Principal:** Yes Nimitz 12 Fed #4H Site: Site Position: Northing: 446040.70 ft Latitude: 32 13 31.094 N Easting: 653838.70 ft Longitude: 103 50 9.072 W From: Map 0.00 ft **Position Uncertainty:** North Reference: Grid Ground Level: 3503.40 ft Grid Convergence: 0.27 deg Well: Nimitz 12 Fed #4H Slot Name: Well Position: +N/-S 0.00 ft Northing: 446040.70 ft Latitude: 32 13 31.094 N +E/-W0.00 ft **Easting** : 653838.70 ft Longitude: 103 50 9.072 W 0.00 ft **Position Uncertainty:** Wellpath: 1 **Drilled From:** Surface **Tie-on Depth:** 0.00 ft Current Datum: SITE Height 3528.40 ft Above System Datum: Mean Sea Level 2/28/2013 7.50 deg **Magnetic Data:** Declination: **Field Strength:** 48443 nT Mag Dip Angle: 60.10 deg Vertical Section: Depth From (TVD) +N/-S +E/-WDirection ft ft ft deg E I 0.00 Ë. 0.00 0.00 359.79 -..... **Plan Section Information** MD: - Incl // Azim // TVD // +N/-S // +E/-W/ DLS // Build // Turn // TFO // Target // // λ≓, fite, the deg be deg as a r, ft sa 0.00 359.79 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 4400.00 359.79 4400.00 0.00 0.00 0.00 0.00 0.00 359.79 4712.00 359.79 2.00 6.24 4711.38 16.97 -0.06 2.00 0.00 359.79 7322.73 6.24 359.79 7306.65 0.00 300.74 -1.10 0.00 0.00 0.00 8369.73 90.00 359.79 7945.00 8.00 8.00 1012.69 -3.72 0.00 0.00 12150.67 90.00 359.79 7945.00 4793.60 -17.60 0.00 0.00 0.00 0.00 PBHL Survey MapNT MapET Commen MD Azim TVD VS DLS ft dêg deg Lit ft ft ft deg/100ft 4400.00 0.00 359.79 4400.00 0.00 0.00 0.00 0.00 446040.70 653838.70 Nudge 4500.00 2.00 359.79 4499.98 1.75 2 00 446042.45 1.75 653838.69 -0.01 4600.00 4.00 359.79 4599.84 6.98 -0.03 6.98 2.00 446047.68 653838.67 4700.00 6.00 359.79 4699.45 15.69 -0.06 15.69 2.00 446056.39 653838.64 4712.00 6.24 359.79 4711.38 16.97 446057.67 16.97 -0.06 2.00 653838.64 Hold 4800.00 6.24 359.79 4798.86 26.54 -0 10 26.54 0.00 446067.24 653838.60 4900.00 6.24 359.79 4898.27 37.41 -0.14 37.41 0.00 446078.11 653838.56 6.24 359.79 4997.68 5000.00 48.28 -0.18 48.28 0.00 446088.98 653838.52 5100.00 6.24 5097.08 359.79 59.15 -0.2259.15 0.00 446099.85 653838.48 5200.00 359.79 6.24 5196.49 70.01 -0.26 70.02 0.00 446110.71 653838.44 5300.00 6.24 359.79 5295.90 80.88 0.00 80.88 -0.30 446121.58 653838.40 5400.00 6.24 359.79 5395.31 91.75 -0.34 91.75 0.00 653838.36 446132.45 5500.00 6.24 359.79 5494.71 102.62 0.00 102.62 -0.38 446143.32 653838.32 5600.00 359 79 113.49 6.24 5594.12 0.00 653838.28 113 49 -0.42446154.19 5700.00 6.24 359.79 5693.53 124.36 446165.06 653838.24 124.36 -0.46 0.00 5800.00 6.24 359.79 5792.94 135.23 -0.50 135.23 0.00 446175.93 653838.20 5900.00 6.24 359.79 -0.54 5892.35 146.10 146.10 0.00 446186.80 653838.16 6000.00 6.24 359.79 5991.75 156.97 -0.58 156.97 0.00 446197.67 653838.12 6100.00 6.24 359.79 6091.16 167.84 -0.62 167.84 0.00 446208.54 653838.08 6200.00 6.24 359.79 6190.57 178.71 178.71 <del>.</del>0.66 0.00 446219.41 653838.04 6300.00 6.24 359.79 6289.98 -0.69 0.00 446230.28 189 58 189.58 653838.01



## Weatherford Wft Plan Report X Y's.



 Company: Occidental Permian Ltd.
 Date: 1/24/2013
 Time: 13:20:38
 Page: 2\*

 Field:
 Eddy Co; NM:(Nad127.)
 Co-ordinate(NE) Reference: Well:Nimitz 12:Fed #4H: Grid:North
 Vertical:(TVD):Reference: Well:Nimitz 12:Fed #4H: Grid:North

 Site:
 Nimitz 12:Fed #4H:
 Section (VS): Reference: Well:0:00N:0:00E:359:79Azi)

 Well:
 Nimitz 12:Fed #4H:
 Section (VS): Reference: Well:0:00N:0:00E:359:79Azi)

 Wellpath: 1
 Survey Calculation Method: Minimum Curvature
 Db:: Sybase

Survey										<u> </u>
MD	'Incl	Azim	TVD 🔆	N/S	E/W	XVS XV	DLS	MapN	MapE	Comme
產的地名福	\deg."	sg , deg;		n ft	ft ft	Y aft, See	*deg/100ft	s ft) av		and interest of the second sec
6400.00	6.24	359.79	6389.38	200.45	-0.73	200.45	0.00	446241.15	653837.97	
6500.00	6.24	359.79	6488.79	211.32	-0.77	211.32	0.00	446252.02	653837.93	
6600.00	6.24	359.79	6588.20	222.18	-0.81	222.19	0.00	446262.88	653837.89	
6700.00	6.24	359.79	6687.61	233.05	-0.85	233.06	0.00	446273.75	653837.85	
6800.00	6.24	359.79	6787.01	243.92	-0.89	243.92	0.00	446284.62	653837.81	
6900.00	6.24	359.79	6886.42	254.79	-0.93	254.79	0.00	446295.49	653837.77	
7000.00	6.24	359.79	6985.83	265.66	-0.97	265.66	0.00	446306.36	653837.73	
7100.00	6.24	359.79	7085.24	276.53	-1.01	276.53	0.00	446317.23	653837.69	
7200.00	6.24	359.79	7184.64	287.40	-1.05	287.40	0.00	446328.10	653837.65	
7300.00	6.24	359.79	7284.05	298.27	-1.09	298.27	0.00	446338.97	653837.61	
7322.73	6.24	359.79	7306.65	300.74	-1.10	300.74	0.00	446341.44	653837.60	KOP
7350.00	8.42	359.79	7333.69	304.22	-1.12	304.22	8.00	446344.92	653837.58	
7400.00	12.42	359.79	7382.86	313.26	-1.15	313.26	8.00	446353.96	653837.55	
7450.00	16.42	359.79	7431.27	325.71	-1.20	325.71	8.00	446366.41	653837.50	
7500 00	00.10	050 70		044		<u> </u>				
7500.00	20.42	359.79	/4/8.70	341.51	-1.25	341.51	8.00	446382.21	653837.45	
7550.00	24.42	359.79	7524.91	360.58	-1.32	360.58	8.00	446401.28	653837.38	
7600.00	28.42	359.79	7569.68	382.82	-1.41	382.82	8.00	446423.52	653837.29	
7650.00	32.42	359.79	7612.79	408.13	-1.50	408.13	8.00	446448.83	653837.20	<u>.</u>
7700.00	36.42	359.79	7654.02	436.39	-1.60	436.39	8.00	446477.09	653837.10	
7750.00	10 12	350 70	7602 10	167 15	4 70	167 16	0 00	AA6600 45	653036 00	#
7700.00	40.42	250 70	7093.19	407.40	-1.72	407.40	0.00	440506.15	003030.90	-
7800.00	44.42	259.19	7704.55	501.00	-1.04	501.10	0.00	440341.00	000000.00	÷.
7850.00	40.42	309.79	7706.40	537.39	-1.97	537.39	8.00	446578.09	653836.73	2
7900.00	52.42	359.79	7796.40	575.92	-2.11	5/5.92	8.00	446616.62	653836.59	
7950.00	56.42	359.19	1825.49	010.58	-2.26	016.58	8.00	440657.28	653836.44	
8000.00	60 4 2	350 70	7851 66	650 16	-2 42	650 17	8.00	116600 86	653836 28	•
8050.00	64 42	359 79	7874 81	703.47	-2.42	703.48	8.00	440035.00	653836 12	
8100.00	68.42	350 70	7894.80	7/0 20	-2.50	7/03.40	8.00	440744.17	653835.05	
8144 91	72.01	350.70	7034.00	791.57	-2.75	791 54	8.00	440703.33	653835 70	Top Bruchy Co
8150.00	72.01	359 79	7911 56	796.39	-2.91	796.39	8.00	440032.24	653835 78	TOP Blushy Ca
0100.00	1 4	000.70	1011.00	750.55	-2.52	730.55	0.00	440007.00	000000.70	
8200.00	76 42	359 79	7924 98	844 54	-3 10	844 55	8.00	446885 24	653835 60	
8250.00	80.42	359 79	7935.01	893 51	-3.28	893.52	8.00	446934 21	653835.42	
8300.00	84 42	359 79	7941.61	943.07	-3 46	943.07	8.00	446983 77	653835 24	
8350.00	88 42	359 79	7944 73	992.96	-3.65	992 97	8.00	447033.66	653835.05	
8369.73	90.00	359.79	7945.00	1012 69	-3 72	1012.70	8.00	447053.39	653834 98	IP
0000110	00.00	000.10	1010100	1012.00	0.7	1012.10	0.00		0000004.00	
8400.00	90.00	359.79	7945.00	1042.96	-3.83	1042.96	0.00	447083.66	653834.87	
8500.00	90.00	359.79	7945.00	1142.96	-4.20	1142.96	0.00	447183.66	653834.50	
8600.00	90.00	359.79	7945.00	1242.96	-4.56	1242.96	0.00	447283.66	653834.14	
8700.00	90.00	359.79	7945.00	1342.95	-4.93	1342.96	0.00	447383.65	653833.77	
8800.00	90.00	359.79 ·	7945.00	1442.95	-5.30	1442.96	0.00	447483.65	653833.40	
	•									
8900.00	90.00	359.79	7945.00	1542.95	-5.66	1542.96	0.00	447583.65	653833.04	
9000.00	90.00	359.79	7945.00	1642.95	-6.03	1642.96	0.00	447683.65	653832.67	
9100.00	90.00	359.79	7945.00	1742.95	-6.40	1742.96	0.00	447783.65	653832.30	
9200.00	90.00	359.79	7945.00	1842.95	-6.77	1842.96	0.00	447883.65	653831.93	
9300.00	90.00	359.79	7945.00	1942.95	-7.13	·1942.96	0.00	447983.65	653831.57	
9400.00	90.00	359.79	7945.00	2042.95	-7.50	2042.96	0.00	448083.65	653831.20	
9500.00	90.00	359.79	7945.00	2142.95	-7.87	2142.96	0.00	448183.65	653830.83	_
9600.00	90.00	359.79	7945.00	2242.95	-8.24	2242.96	0.00	448283.65	653830.46	-
9700.00	90.00	359.79	7945.00	2342.95	-8.60	2342.96	0.00	448383.65	653830.10	
9800.00	90.00	359.79	7945.00	2442.95	-8.97	2442.96	0.00	448483.65	653829.73	
										-
9900.00	90.00	359.79	7945.00	2542.95	-9.34	2542.96	0.00	448583.65	653829.36	
10000.00	90.00	359.79	7945.00	2642.95	-9.70	2642.96	0.00	448683.65	653829.00	
10100.00	90.00	359.79	7945.00	2742.95	-10.07	2742.96	0.00	448783.65	653828.63	•
10200.00	90.00	359.79	7945.00	2842.94	-10.44	2842.96	0.00	448883.64	653828.26	
				<u>-</u>	··· <u>·</u> ··		· · · · · ·			



## Weatherford Wft Plan Report X Y's.



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 Company: Occidental Permian Ltd.
 Date: 1/24/2013
 Filme: 13:20:38
 Page: 3

 Field:
 Eddy Co: NM (Nad:27)
 Co-ordinate(NE) Reference: Well: Nimitz 12:Fed #4H: Grid/North
 Ster:
 Nimitz 12:Fed #4H: Grid/North
 Ster:
 Ster:
 Nimitz 12:Fed #4H: Grid/North
 Ster:
 <td Survey MD<sup>a</sup> Incl<sup>a</sup> Azim TVD, N/S E/W (Commentation of the second 10300.00 90.00 359.79 7945.00 2942.94 -10.81 2942.96 0.00 448983.64 653827.89 3042.96 0.00 449083.64 653827.53 10400.00 90.00 359.79 7945.00 3042.94 -11.17 449183.64 653827.16 10500.00 90.00 359.79 7945.00 3142.94 -11.54 3142.96 0.00 3242.96 0.00 449283.64 653826.79 10600.00 90.00 359.79 7945.00 3242.94 -11.91 3342.94 449383.64 653826.43 10700.00 90.Ó0 359.79 7945.00 -12.273342.96 0.00 10800.00 90.00 359.79 7945.00 3442.94 -12.64 3442.96 0.00 449483.64 653826.06 10900.00 90.00 359.79 7945.00 3542.94 -13.01 3542.96 0.00 449583.64 653825.69 11000.00 90.00 359.79 7945.00 3642.94 -13.38 3642.96 0.00 449683.64 653825.32 359.79 7945.00 3742.94 3742.96 0.00 449783.64 653824.96 11100.00 90.00 -13.74 11200.00 359.79 7945.00 3842.94 3842.96 0.00 449883.64 653824.59 90.00 -14.11 653824.22 11300.00 90.00 359.79 7945.00 3942.94 -14 48 3942.96 0.00 449983 64 11400.00 90.00 359.79 7945.00 4042.94 -14.84 4042.96 0.00 450083.64 653823.86 11500.00 90.00 359.79 7945.00 4142.94 -15.21 4142.96 0.00 450183.64 653823.49 11600.00 7945.00 4242.93 4242.96 0.00 450283.63 653823.12 90.00 359.79 -15.5811700.00 90.00 359.79 7945.00 4342.93 -15.95 4342.96 0.00 450383.63 653822.75 11800.00 450483.63 90.00 359.79 7945.00 4442.93 -16.31 4442.96 0.00 653822.39 11900.00 90.00 359.79 7945.00 ÷. 4542.93 -16.68 4542.96 0.00 450583.63 653822.02 12000.00 90.00 359.79 7945.00 ± 1642.93 -17.05 4642.96 0.00 450683.63 653821.65 12100.00 90.00 359.79 7945.00 4742.93 -17.41 4742.96 0.00 450783.63 653821.29 12150.67 7945.00 653821.10 PBHL 90.00 359.79 -17.60 4793.63 0.00 450834.30 ā Ę Targets Name 亦而這 PBHL 7945.00 4793.60 -17.60 450834.30 653821.10 32 14 18.532 N 103 50 9.019 W **Casing Points** <sup>13</sup>MD<sup>3</sup>/IVD Diameter Hole/Size Name It IU - Juity einet 520.00 520.00 0.000 0.000 Csg 4300.00 4300.00 0.000 0.000 Csg Annotation MD TYD. a and Ster relev 134 J. Nudge 4400.00 4400.00 4712.00 4711.38 Hold 7306.65 KOP 7322.73 8369.73 7945.00 LP PBHL. 12150.66 7945.00

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DP-4



## Weatherford Anticollision Report

Weatherford'

B. the Warther Mr.	Company: Field: Reference Reference Reference	Site:	Occidental I ddy Co, N limitz 12 F limitz 12 F	Permian Ltc M (Nad'27) ed #4H ed #4H			i i i i i i i i i i i i i i i i i i i	Date: 1/ o-ordin (critical (	24/2013 ate(NE) R FV D) Ref	Time: eference:+We erence:* SIT	13:23:1 II: Nimit E 3528	2 z 12/F.ed 4	#4H-Gr	Page: id North Db: Syl	ase (
	NO GLOE Interpolat Depth Rai Maximum	BAL SCAN ion Metho nge: Radiu\$0	V: Using u odMD + Sta 0.00 to 000.00 ft	ser defined tions Inte .13768.42	l selectio rval: 10 ? ft	on & scar 00.00 ft	ı criteri	a	Ref Err Sca Err	ference: for Model: n Method: for Surface;	Plan: P ISCWS Closes Ellipse	lan #3 6A Ellipse at Approa	e ach 3D		
	Plan:	Plan #3						Date (	Composed	I: 1/23/2	2013				
	Principal:	Yes						Verst Tied-t	o:	From	Surface	Э			
	Summary					,									
	< Site		Offset We Well	ellpath	Wellpati			Referenc MD ft	e Offset MD ft	Ctr-Ctr-Ec DistanceDi ft	lge Se stance ft	pàratio Factor	n Wa	rning	
	Exist. Gila	12 Fed #	Existing Gi	la 12 Fed	1 V0			7950.00	8760.71	200.07 167	7.83	6.21		<u></u>	•
	Site: Well: Wellpath:	Exist. Gila Existing C 1 V0	a 12 Fed #2 Sila 12 Fed	2H #2H						Inter-Site H	Error:	0.00	ft		
	Refe	rence	<u> </u>	ffset 🕄	(Semi-N	Aajor, Ax	is	Offse	Location	i Ctr-Ctř Ed	lge Se	parațio	n		
	MD (f	IVD ≨_ft	, MD. , ft, s	stanting and the second s	ft.	20ffset	∶ГГО-Н ≽deg	S North	East ft	Se Distance Di	stance ft	hactor	wa wa	rning:	
Ĩ	0.00	0.00	14.71	14.71	0.00	0.01	63.06	532.80	1048.19	1175.83 1175	5.82 79	258.99			
	100.00 200.00	100.00 200.00	118.01 212.09	118,01 21 <u>2,</u> 09	0.08 0.31	0.13 0.31	63.05 63.04	532.78 532.89	1047.87 1047.76	1175.54 1175	5.32 5. 1.87 18	387.55 897.72			
	300.00	300.00	313.34	313 <u>-</u> 34	0.53	0.53	63.04 63.01	533.02 533.66	1047.74	1175.53 1174	1.46 1 <sup>.</sup> 1.44	104.10			
	400.00	400.00	404.77		0.70	0.75	00.01	000.00	1047.04	1170.001111	•	101.00			
	500.00 600.00	500.00 600.00	499.73 604 37	499.72 604.34	0.98 1 21	0.96 1 22	62.96 62.90	534.93 536 52	1048.25	1176.94 1174	1.99 ( 5.50 4	604.26 484 39			
	700.00	700.00	702.62	702.59	1.43	1.47	62.86	537.80	1048.94	1178.83 1175	5.92	406.04			ļ
	800.00 900.00	800.00 900.00	807.85 910.18	807.81 910.14	1.66 1.88	1.73 1.99	62.83 62.80	538.66 539.28	1049.36 1049.50	1179.56 1176 1179.95 1176	5.17 : 5.07 :	348.02 304.34			
	4000.00	1000.00	4007.40	4007.45	0.44	0.05	00.70	500.00	1010.00	4400 40 4470		074.40			
	1000.00	1000.00	1007.49	1007.45	2.11	2.25 2.52	62.78 62.76	539.89 540.47	1049.68	1180.401176	5.92 2	243.58			
	1200.00	1200.00	1211.77	1211.72	2.56	2.78	62.73	541.03	1049.74	1180.96 1175	5.63	221.36			
	1300.00 1400.00	1300.00	1311.30 1411.26	1311.25 1411 21	2.78	3.04 3.30	62.70 62.67	541.68 542.31	1049.64	1181.17 1175	5.35 2 5.08	202.96			
	1500.00 1600.00	1500.00	1509.40 1606.43	1509.35 1606.37	3.23 3.46	3.56 3.82	62.63 62.58	543.19 544.42	1049.44	1181.691174	1.90 1.93	174.02 162.58			
1	1700.00	1700.00	1703.27	1703.20	3.68	4.07	62.51	545.98	1049.39	1182.97 1175	5.22	152.59			
	1800.00 1900.00	1800.00	1800.06 1896 80	1799.96 1896 69	3.91 4 13	4.33 4.58	62.43 62.35	547.88 549.95	1049.53	1184.01 1175	5.78 3.61	143.80 136.04			Ĩ
	2000.00	2000.00	1995.53	1995.39 2098.81	4.35 4.58	4.84 5.12	62.27 62.18	552.20 554.58	1050.38	1186.831177	7.64 3.56	129.04 122.56			
	2200.00	2200.00	2199.97	2199.77	4.80	5.38	62.09	556.70	1051.08	1189.49 1179	9.30	116.76			
	2300.00	2300.00	2309.31	2309.09	5.03	5.67	62.00	558.74	1050.96	1190.26 1179	9.56	111.25			
	2400.00	2400.00	2412.40	2412.21	5.25	5.95	01.91	300.00	1050.25	1190.501178	9.32	100.42			
	2500.00	2500.00	2509.69	2509.44	5.48	6.18	61.81	562.46	1049.54	1190.76 1179	9.10	102.13			ĺ
	2600.00	2700.00	2007.27	2700.53	5.70 5.93	0.43 6.68	61.70 61.58	567.38	1048.85	1191.23 11/9	9.09 9.48	90.15 94.55			
	2800.00	2800.00	2803.24	2802.87	6.15	6.95	61.44	570.39	1047.86	1193.101179	9.99	91.05		,	
	2900.00	2900.00	2900.05	2899.64	6.38	7.21	61.32	572.99	1047.61	1194.161180	).57	87.91			
	3000.00	3000.00	3011.04 ·	3010.60	6.60	7.50	61.20	575.68	1047.06	1194.891180	).79	84.75			
	3100.00	3100.00	3118.82	3118.35	6.83	7.76	61.07	577.99	1045.65	1194.77 1180	).17	81.87			
	3200.00 3300.00	3200.00	3218.38	3217.88 3324.51	7.05	8.00 8.25	60.95 60.82	579.97 582 14	1044.18	1194.44 1179	1.38 1.40	79.32 76.81			
	3400.00	3400.00	3440.13	3439.52	7.50	8.50	60.65	584.28	1039.02	1192.31 1176	5.27	74.36			
	3500.00	3500.00	3537.96	3537.26	7.73	8.70	60.48	586.16	1035.39	1190.02 1173	8.56	72.30			



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8763.17

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27.64 181.43

27.62 180.91

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-7.75

-6.72

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-3.29

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451.33 424.71

402.63 376.85

355.37 330.81

310.48 287.49

269.43 247.62

234.48 212.53

208.93 184.62

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13.51

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8.59

### Weatherford Anticollision Report



DP-6

 

 Company:
 Occidental/Permian Etd;
 Date: 1/24/2013
 Time: 13/23.12
 Page: 2

 Field:
 Eddy Co, NM-(Nad 27))

 ReferenceSite:
 Nimitz 12/Fed #4H
 Co-ordinate(NE) Reference: Well: Nimitz 12/Fed #4H. Grid: North

 ReferenceWell;
 Nimitz 12/Fed #4H.
 Vertical/ (TVD) Reference: SITE: 3528.4

 ReferenceWellpath:
 Db: Sybase 

 Exist Gila 12 Fed #2H Sife: Well: Existing Gila 12 Fed #2H Wellpath: 1 V0 0.00 Inter-Site Error: ft 

 Reference
 Offset
 Semi-Major Axis
 Offset Location
 Ctr-Ctr Edge
 Separation

 MD
 TVD
 MD
 TVD
 Ref
 Offset TFO<sup>2</sup>HS North
 East
 Distance Distance Factor
 Warning

 ft
 ft
 ft
 ft
 ft
 ft
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## Weatherford Anticollision Report



Weatherford

DP-7

Company Field Referenc Referenc	e Site e Well: e Wellpati	Occidental Eddy Co, N Nimitz-12-E Nimitz 12 E 1:	Permian Ltc M (Nad 27) ed #4H ed #4H				Date: (1/ Eo=ordini Vertical (	24/2013 atē(NE)-R TVD) Rē	Tin Ceference: ference:	ie:: 13:2 Well-Nir SITE:352	3:12 nitz-12:Fed 28:4	i #4H⊧Grid	Page: I:North Db:: Syt	3 base/
Site: Well: Wellpat	Exist. Gil Existing h: 1 V0	a 12 Fed # Gila 12 Fed	2H   #2H						Inter-Ś	ite Error	: 0.00	ft		
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# 10M REMOTE KILL LINE SCHEMATIC

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CM-3





**Coflex Hose Certification** 



Fluid Technology

Quality Document

### CERTIFICATE OF CONFORMITY

Supplier : CONTITECH RUBBER INDUSTRIAL KFT. Equipment: 6 pcs. Choke and Kill Hose with installed couplings 3" x 10,67 m WP: 10000 psi Type: Supplier File Number : 412638 : April. 2008 **Date of Shipment** : Phoenix Beattie Co. Customer : 002491 Customer P.o. **Referenced Standards** / Codes / Specifications : API Spec 16 C Serial No.: 52754,52755,52776,52777,52778,52782

#### STATEMENT OF CONFORMITY

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

COUNTRY OF ORIGIN HUNGARY/EU

Signed

Position: Q.C. Manager

\_ontiTech Rubber Industrial Rit. Quality Control Dept.

Date: 04. April. 2008

Page: 1/1



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FH-2

Material Identification Certificate										
PA No 006	A No 006330 Client HELMERICH & PAYNE INT'L DRILLING Client Ref 370-369-001 Page 1									
Part No	Description	Material Desc	Material Spec	Oty	WO No	Batch No	Test Cert No	Bin No	Drg No	Issue No
HPIOCK3A-35-4F1	3" 10K 16C C&K HOSE x 35ft GAL		······································	1	2491	52777/H884		HATER		
SECK3-HPF3	LIFTING & SAFETY EQUIPHENT TO			1	2440	002440		N/STK		
SC726-200CS	SAFETY CLAMP 200MH 7.25T	CARBON STEEL		1	2519	H665		22C		
SC725-132CS	SAFETY CLAMP 132MH 7.25T	CARBON STEEL		1	2242	H139		22		
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<sup>ii</sup>:We hereby certify that these goods have been inspected by our Quality Management System, and to the best of our knowledge are found to conform to relevant industry standards within the requirements of the purchase order as issued to Phoenix Beattle Corporation.

**Coflex Hose Certification** 

FH-3

Form No 100/12

Phoenix Beattie Corp 11535 Brittmoore Park Grive Houston, TX 77041 Tel: (832) 327-0141 Fax: (832) 327-0148 E-mail mail@phoenixbeattie.com www.phoenixbeattie.com

## **Delivery Note**

- PHOENIX Beattie

Customer Order Number 370-369-001	<b>Delivery Note Number</b>	003078	Page	1
Customer / Invoice Address HELMERICH & PAYNE INT'L DRILLING CO 1437 SOUTH BOULDER TULSA, OK 74119	Delivery / Address Helmerich & Payne IDC Attn: Joe Stephenson - Ri 13609 Industrial Road Houston, Tx 77015	G 370		·

Customer Acc No	Phoenix Beattle Contract Manager	Phoenix Beattie Reference	Date	
′ H01	JJL	006330	05/23/2008	

ltem No	Beattle Part Number / Description	Qty Ordered	Oty Sent	Qty To Follow
1	HP10CK3A-35-4F1 3" 10K 16C C&K_HOSE x 35ft OAL CW 4.1/16" API SPEC FLANGE E/ End 1: 4.1/16" 10Kpsi API Spec 6A Type 6BX Flange End 2: 4.1/16" 10Kpsi API Spec 6A Type 6BX Flange c/w BX155 Standard ring groove at each end Suitable for H2S Service Working pressure: 10,000psi Test pressure: 15,000psi Standard: API 16C Full specification Armor Guarding: Included Fire Rating: Not Included Temperature rating: -20 Deg C to +100 Deg C	1		0
2	SECK3-HPF3 LIFTING & SAFETY EQUIPMENT TO SUIT HP10CK3-35-F1 2 x 160mm ID Safety Clamps 2 x 244mm ID Lifting Collars & element C's 2 x 7ft Stainless Steel wire rope 3/4" OD 4 x 7.75t Shackles	1	1	0
3	SC725-200CS SAFETY CLAMP 200MM 7.26T C/S GALVANISED	1	. 1	. 0

Continued...

All goods remain the property of Phoenix Beattle until paid for In full. Any damage or shortage on this delivery must be advised within 5 days. Returns may be subject to a handling charge.

F4-4



Fluid Technology

Quality Document

QUAL INSPECTION	TY CONT	ROL CERTIFIC	ATE	CERT. I	No:	746	
PURCHASER:	Phoenix Bea	ttle Co.		P.O. Nº	; 0	02491	
CONTITECH ORDER Nº:	412638	HOSE TYPE:	3" ID	Ch	oke and K	ill Hose	
HOSE SERIAL Nº:	52777	NOMINAL / AC	FUAL LENGTH:		10,67 m		
W.P. 68,96 MPa 1	0000 psi	т.р. 103,4	MPa 1500	0 psi	Duration:	60 ~~	min.
Pressure test with water at ambient temperature See attachment. (1 page)							
10 mm = 10 Min → 10 mm = 25 MP	↑ 10 mm = 10 Min. → 10 mm = 25 MPa						
		COUPI	INGS				
Туре	:	Serial Nº		Quality		Heat N°	
3" coupling with	917	913	AIS	<b>51</b> 4130		T7998A	
4 1/16" Flange end			AIS	81 4130		26984	
INFOCHIP INSTALLED API Spec 16 C Temperature rate:"B"							
WE CERTIFY THAT THE ABOVE PRESSURE TESTED AS ABOVE	e hose has be With Satisfac	EN MANUFACTUI CTORY RESULT.	RED IN ACCORE	DANCE WI	TH THE TER	ms of the ord	ER AND
Date:	Inspector		Quality Contro	)			
04. April. 2008	a a general month in the Instanton reason agoing an	والمحتجر المحتجر المحتج	Hage (	Continuality	Tech Rubbe dutrial Kit. y Control Deg (1)	r <u>Ichci</u>	( ,

FH-6

## 🦇 PHOENIX Beattie

#### Form No 100/1

Phoenix Beattle Corp 11535 Britumore Park Drive Houston, TX 77041 Tel: (632) 327-0141 Fex: (632) 327-0148 E-mail mail@phoenixbeattle.com www.phoenixbeattle.com

## **Delivery Note**

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Customer Order Number	370-369-001	<b>Delivery Note Number</b>	003078	Page	2
Customer / Invoice Addre HELMERICH & PAYNE INT'L 1437 SOUTH BOULDER TULSA, OK 74119	ss DRILLING CO	Delivery / Address Helmerich & Payne IDC Attn: Joe Stephenson - Ri 13609 Industrial Road Houston, Tx 77015	G 370		

Customer Acc No	Phoenix Beattie Contract Manager	Phoenix Beattle Reference	Date
ној	JIL	006330	05/23/2008

ltern No	Beattle Part Number / Description	Qty Ordered	Qty Sent	Qty To Follow
4 4 H	SC725-132CS SAFETY CLAMP 132MM 7.25T C/S GALVANIZED C/W BOLTS	1	1	-
5 ÷	OOCERT-HYDRO	1	1	0
6	OOCERT-LOAD LOAD TEST CERTIFICATES	1	1	0
	OUFREIGHT INBOUND / OUTBOUND FREIGHT PRE-PAY & ADD TO FINAL INVOICE NOTE: MATERIAL MUST BE ACCOMPANIED BY PAPERWORK INCLUDING THE PURCHASE ORDER, RIG NUMBER TO ENSURE PROPER PAYMENT	1	1	0
	K	Prod	$\bigcap$	
	Phoenix Beattle Inspection Signature :	HANNA HA	WALEY	
	Received in Good Condition : Signature	F	$\overline{}$	
	Print Name		N	
-	Date			

All goods remain the property of Phoenix Beattle until paid for in full. Any damage or shortage on this delivery must be advised within 5 days. Returns may be subject to a handling charge.

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(1EZ-6

## **OXY FLEX III PAD (**SCOMI Closed Loop System)

Level Area-No Caliche-For Offices and Living Quarters



4 H


# Permian Drilling Hydrogen Sulfide Drilling Operations Plan Nimitz 12 Federal #4H

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

1. Escape

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Personnel shall escape upwind of wellbore in the event of an emergency gas release. Escape can take place through the lease road on the NORTHEAST 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.

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# H25-2





# 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

H25-4

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

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

H25-6

### 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.
- B. Rotating head
- C. Gas buster equipment shall be installed before drilling out of surface pipe.

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

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

### 3. Hydrogen sulfide sensors and alarms

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

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

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

Caution – potential poison gas Hydrogen sulfide No admittance without authorization

- 4 -

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:

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- 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.

# **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

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- 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</u> ignited.** 

Has-13

#### 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-

425-14

- 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.

**Important:** 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\_

H-5-15

### 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.

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### 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

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Toxicity of various gases

Common	Chemical	Specific	Threshold	Hazardous	Lethal concentration
name	formula	gravity	limit	limit	(3)
		(sc=1)	(1)	(2)	
Hydrogen	Hen	0.94	10 ppm	150 ppm/hr	300 ppm
Cyanide					
Hydrogen	H2S	1.18	10 ppm	250 ppm/hr	600 ppm
Sulfide	3	_	11		11
Sulfur	So2	2.21	5 ppm	-	1000 ppm
Dioxide		4	11		
Chlorine	Cl2 -	2.45	l ppm	4 ppm/hr	100 <del>0</del> ppm
		183-		rr ·	
Carbon	Со	÷ 0.97	50 ppm	400 ppm/hr	1000 ppm
Monoxide				- <b>1</b> 1	
Carbon	Co2	1.52	5000 ppm	5%	10%
Dioxide			<b>rr</b>		
Methane	Ch4	0.55	90,000 ppm	. Combustibl	e above 5% in air

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

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

3) lethal concentration – concentration that will cause death with short-term exposure.

### Toxic effects of hydrogen sulfide

# Table ii Physical effects of hydrogen sulfide

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

# H25-17

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.

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### 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.

H25-19

- 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.

### **<u>Rescue</u>** 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





### SURFACE USE PLAN OF OPERATIONS

<b>Operator Name/Number:</b>	OXY USA Inc.	1	6696
Lease Name/Number:	Nimitz 12 Federal #4H	3	9655
Pool Name/Number:	Poker Lake Delaware NW	9 (	6046
Surface Location:	100 FSL 2033 FWL SESW(N) Sec 12 T24S R3OE	Federal Lease:	
Penetration Point:	330 FSL 2034 FWL SESW(N) Sec 12 T24S R3OE	N N N N U 0 2 8 9 0	
Bottom Hole Location:	350 FNL 2052 FWL NENW(C) Sec 12 T24S R3OE .		

### 1. Existing Roads

- a. A copy of a USGS "Big Sinks, NM" quadrangle map is attached showing the proposed location. The well location is spotted on this map, which shows the existing road system.
- b. The well was staked by Terry J. Asel, Certificate No. 15079 on 9/11/12, certified 10/8/12.
- c. Directions to Location: Beginning at the intersection of SH 128 and CR 787, go south on CR 787 for 5.5 miles. Turn right and go west for 1.4 miles. Turn right on caliche road and go north for 0.8 miles. Turn left and go northwest for 0.3 miles. Turn left and go southwest for 0.1 miles, turn left on proposed road and go south 0.1 miles to location.

#### 2. New or Reconstructed Access Roads:

- a. A new access road will be built. The access road will run approximately 528' south from an existing road to the location.
- b. The maximum width of the road will be 15'. It will be crowned and made up of 6" of rolled and compacted caliche. Water will be deflected, as necessary, to avoid accumulation and prevent surface erosion.
- c. Surface material will be native caliche. This material will be obtained from a BLM approved pit nearest in proximity to the location. The average grade will be approximately 1%.
- d. No cattle guards, grates or fence cuts will be required. No turnouts are planned.
- e. Blade, water & repair an existing caliche road as needed.

### 3. Location of Existing Wells:

Existing wells within a one mile radius of the proposed well are shown on attached plat.

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

- a. In the event the well is found productive, the Gila 12 #2 Federal tank battery would be utilized.
- b. Electric power lines will be installed according to the attached survey.
- c. Flowlines will be installed as shown in the attached Proposed Flowline Diagram.

### 5. Location and types of Water Supply.

This well will be drilled using a combination of water mud systems. It will be obtained from commercial water stations in the area and will be hauled to location by transport truck using existing and proposed roads.

### 6. Construction Materials:

All caliche utilized for the drilling pad and proposed access road will be obtained from an existing BLM approved pit or from prevailing deposits found under the location. Will use BLM recommended use of extra caliche from other locations close by for roads, if available.

### 7. Methods of Handling Waste Material:

- a. A closed loop system will be utilized consisting of above ground steel tanks and haul-off bins. Disposal of liquids, drilling fluids and cuttings will be disposed of at an approved facility, see C-144 CLEZ.
  - 1. Solids CRI
  - 2. Liquids Laguna
- b. All trash, junk, and other waste material will be contained in trash cages or bins to prevent scattering. When the job is completed, all contents will be removed and disposed of in an approved sanitary landfill.
- c. The supplier, including broken sacks, will pick up slats remaining after completion of well.
- d. A Porto-john will be provided for the rig crews. This equipment will be properly maintained during the drilling and completion operations and will be removed when all operations are complete.
- e. Disposal of fluids to be transported will be by the following companies: TFH Ltd. - Laguna SWD Facility

### 8. Ancillary Facilities: None needed

### 9. Well Site Layout

The proposed well site layout with dimensions of the pad layout and equipment location.

V-Door - West	Tanks – South – Closed Loop Tanks	Pad - 280' X-440' ****

### **10. Plans for Surface Reclamation:**

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

### 11. Surface Ownership

The surface is owned by the U.S. Government and is administered by the BLM. The surface is multiple use with the primary uses of the region for the grazing of livestock and the production of oil and gas. The surface is leased to: Richardson Cattle Co., P.O. Box 487, Loving, NM 88221 They will be notified of our intention to drill prior to any activity.

### 12. Other Information

- a. The vegetation cover is generally sparse consisting of mesquite, yucca, shinnery oak, sandsage and perennial. native range grass. The topsoil is sandy in nature. Wildlife in the area is also sparse consisting of deer, coyotes, rabbits, rodents, reptiles, dove and quail.
- b. There is no permanent or live water in the general proximity of the location.
- c. The nearest dwelling is approximately 1.8 miles southeast from the well site.
- d. Cultural Resources Examination this well is located in the Permian Basin MOA.

Pad + 1/4 mile road	\$1,463.00	0	\$0.17/ft over 1/4 mile	\$0.00	\$1,463.00
Pipeline - up to 1mile	\$1,350.00		\$274 per 1/4 mile	\$0.00	\$1,350.00
Electric Line - up to 1mile	\$676.00	0	\$0.19/ft over 1 mile	\$0.00	\$676.00
Total	\$3,489.00			\$0.00	\$3,489.00

### 13. Bond Coverage:

Bond Coverage is Individual-NMB000862, Nationwide-ESB000226

#### **Operators Representatives:**

The OXY Permian representatives responsible for ensuring compliance of the surface use plan are listed below.

Kim Moore Production Coordinator 1017 W. Stanolind Rd. Hobbs, NM 88240 Office Phone: 575-397-8236 Cellular: 575-706-1219

Roger Allen Drilling Superintendent P.O. Box 4294 Houston, TX 77210 Office Phone: 713-215-7617 Cellular: 281-682-3919

Sebastian Millan Drilling Engineering Supervisor P.O. Box 4294 Houston, TX 77210 Office Phone: 713-985-8750 Cellular: 713-528-3268 Charles Wagner Manager Field Operations 1502 West Commerce Dr. Carlsbad, NM 88220 Office Phone: 575-628-4151 Cellular: 575-725-8306

Calvin (Dusty) Weaver Operation Specialist P.O. Box 50250 Midland, TX 79710 Office Phone: 432-685-5723 Cellular: 806-893-3067

Carlos Mercado Drilling Engineer P.O. Box 4294 Houston, TX 77210 Office Phone: 713-366-5418 Cellular: 281-455-3481

### OPERATOR CERTIFICATION

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I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions that presently exist; that I have full knowledge of State and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements. Executed this 15<sup>-16</sup>/<sub>10</sub> day of February , 2013.

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Name:	_Peter Lawrence	hear
Position:	Reservoir Management Tea	am Leader
Address:	5 Greenway Plaza, Suite 11	10, Houston, TX 77046
Telephone: _	713-215-7644	
E-mail: (optic	nal):peter_lawrence	e@oxy.com
Ċompany:	Occidental Permian LF	P / OXY USA Inc. / OXY USA WTP LP
Field Repres	entative (if not above signate	ory): <sup>=</sup> Dusty Weaver
Address (If d	fferent from above): _P.O. I	Box 50250 Midland, TX 79710
Telephone (if	different from above):	432-685-5723 <sup>+</sup>
E-mail (if diffe	erent from above):	calvin_weaver@oxy.com

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# PECOS DISTRICT CONDITIONS OF APPROVAL

<b>OPERATOR'S NAME:</b>	OXY USA Inc.
LEASE NO.:	NMNM-82896
WELL NAME & NO.:	Nimitz 12 Federal 4H
SURFACE HOLE FOOTAGE:	0100' FSL & 2033' FWL
<b>BOTTOM HOLE FOOTAGE</b>	0350' FNL & 2052' FWL
LOCATION:	Section 12, T. 24 S., R 30 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.

General Provisions
Archaeology, Paleontology, and Historical Sites
Noxious Weeds
Special Requirements
Cultural
Construction
Notification
Topsoil
Closed Loop System
Federal Mineral Material Pits
Well Pads
Roads
Road Section Diagram
🔀 Drilling
Medium Cave/Karst
Secretary's Potash
Logging Requirements
Waste Material and Fluids
<b>Production (Post Drilling)</b>
Well Structures & Facilities
Pipelines
Electric Lines
Interim Reclamation
Final Abandonment & Reclamation

# I. GENERAL PROVISIONS

5

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

# **II. PERMIT EXPIRATION**

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

# III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

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

# **IV. NOXIOUS WEEDS**

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

# V. SPECIAL REQUIREMENT(S)

# VI. CONSTRUCTION

# A. NOTIFICATION

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Carlsbad Field Office at (575) 234-5909 at least 3 working days prior to commencing construction of the access road and/or well pad.

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

# **B.** TOPSOIL

The operator shall stockpile the topsoil in a low profile manner in order to prevent wind/water erosion of the topsoil. The topsoil to be stripped is approximately 6 inches in depth. The topsoil will be used for interim and final reclamation.

# C. CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No Pits.

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

# D. FEDERAL MINERAL MATERIALS PIT

Payment shall be made to the BLM prior to removal of any federal mineral materials. Call the Carlsbad Field Office at (575) 234-5972.

# E. WELL PAD SURFACING

Surfacing of the well pad is not required.

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

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

# F. ON LEASE ACCESS ROADS

# Road Width

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

surface disturbance, when constructing the access road, shall not exceed twenty-five (25) feet.

### Surfacing

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

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

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

# Crowning

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

# Ditching

Ditching shall be required on both sides of the road.

### **Turnouts**

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



### Drainage

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

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

# **Cross Section of a Typical Lead-off Ditch**



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

### Formula for Spacing Interval of Lead-off Ditches

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

400 foot road with 4% road slope:  $\frac{400'}{4\%}$  + 100' = 200' lead-off ditch interval

# **Culvert Installations**

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

# Cattleguards

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

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

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

# **Fence Requirement**

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

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

# **Public Access**

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

Figure 1 - Cross Sections and Plans For Typical Road Sections



# VII. DRILLING

# A. DRILLING OPERATIONS REQUIREMENTS

The BLM is to be notified 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 (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.
- 2. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval. 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

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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. 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.

Secretary's Potash Medium Cave/Karst Possibility of water flows in the Castile, Salado, and Delaware formations. Possibility of lost circulation in the Delaware.

- 1. The 13-3/8 inch surface casing shall be set at approximately 590 feet (in a competent bed below the Magenta Dolomite, which is a Member of the Rustler, and if salt is encountered, set casing at least 25 feet above the salt) and cemented to the surface.
  - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.

# b. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.

c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.

- d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The minimum required fill of cement behind the 9-5/8 inch intermediate casing 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 and potash.

Formation below the 9-5/8" 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:

Operator has proposed a DV tool at depth of 6000' and another DV tool at a depth of 4250'. Operator is to submit sundry if DV tool depth varies by more than 100' from approved depth.

- a. First stage to DV tool:
- Cement to circulate. If cement does not circulate, contact the appropriate BLM office before proceeding with second stage cement job. Operator should have plans as to how they will achieve circulation on the next stage.
- b. Second stage to DV tool:
- Cement to circulate. If cement does not circulate, contact the appropriate BLM office before proceeding with second stage cement job. Operator should have plans as to how they will achieve circulation on the next stage.
- c. Third stage above POST tool:
- Cement to surface. If cement does not circulate, contact the appropriate BLM office. Excess calculates to 13% Additional cement may be required. Production
- 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).
- 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.
  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 potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time.
  - 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.
  - 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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# VIII. PRODUCTION (POST DRILLING)

# A. WELL STRUCTURES & FACILITIES

# **Placement of Production Facilities**

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

# **Containment Structures**

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

# **Painting Requirement**

All above-ground structures including meter housing that are not subject to safety requirements shall be painted a flat non-reflective paint color, <u>Shale Green</u> from the BLM Standard Environmental Color Chart (CC-001: June 2008).

# **B. PIPELINES**

# STANDARD STIPULATIONS FOR SURFACE INSTALLED PIPELINES

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

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

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

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

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

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

- a. Activities of the holder including, but not limited to construction, operation, maintenance, and termination of the facility.
- b. Activities of other parties including, but not limited to:
  - (1) Land clearing.
  - (2) Earth-disturbing and earth-moving work.
  - (3) Blasting.
  - (4) Vandalism and sabotage.
- c. Acts of God.

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

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

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

6. All construction and maintenance activity will be confined to the authorized right-ofway width of 20 feet. If the pipeline route follows an existing road or buried pipeline right-of-way, the surface pipeline must be installed no farther than 10 feet from the edge of the road or buried pipeline right-of-way. If existing surface pipelines prevent this distance, the proposed surface pipeline must be installed immediately adjacent to the outer surface pipeline. All construction and maintenance activity will be confined to existing roads or right-of-ways.

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

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

9. The pipeline shall be buried with a minimum of <u>24</u> inches under all roads, "two-tracks," and trails. Burial of the pipe will continue for 20 feet on each side of each crossing. The condition of the road, upon completion of construction, shall be returned to at least its former state with no bumps or dips remaining in the road surface.

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

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

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

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

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

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

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

17. Surface pipelines must be less than or equal to 4 inches and a working pressure below 125 psi.

18. Special Stipulations:

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### C. ELECTRIC LINES

#### STANDARD STIPULATIONS FOR OVERHEAD ELECTRIC DISTRIBUTION LINES

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

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

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

2. The holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic

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

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

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

5. Power lines shall be constructed in accordance to standards outlined in "Suggested Practices for Raptor Protection on Power lines, " Raptor Research Foundation, Inc., 1981. The holder shall assume the burden and expense of proving that pole designs not shown in the above publication are "raptor safe." Such proof shall be provided by a raptor expert approved by the Authorized Officer. The BLM reserves the right to require modification or additions to all powerline structures placed on this right-of-way, should they be necessary to ensure the safety of large perching birds. Such modifications and/or additions shall be made by the holder without liability or expense to the United States.

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

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

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

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

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

11. Special Stipulations:

i

- The BLM, Carlsbad Field Office, will be informed immediately if any subsurface drainage channels, cave passages, or voids are penetrated during construction and no further construction will be done until clearance has been issued by the Authorized Officer. Special restoration stipulations or realignment may be required.
- For reclamation remove poles, lines, transformer, etc. and dispose of properly.
- Fill in any holes with native soil from the removed poles.

# IX. INTERIM RECLAMATION

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

Within six (6) months of well completion, operators should work with BLM surface management specialists (Jim Amos: 575-234-5909) to devise the best strategies to reduce the size of the location. Interim reclamation should allow for remedial well operations, as well as safe and efficient removal of oil and gas.

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

All disturbed areas after they have been satisfactorily prepared need to be reseeded with the seed mixture provided below.

Upon completion of interim reclamation, the operator shall submit a Sundry Notices and Reports on Wells, Subsequent Report of Reclamation (Form 3160-5).

# **X. FINAL ABANDONMENT & RECLAMATION**

At final abandonment, well locations, production facilities, and access roads must undergo "final" reclamation so that the character and productivity of the land are restored.

Earthwork for final reclamation must be completed within six (6) months of well plugging. All pads, pits, facility locations and roads must be reclaimed to a satisfactory revegetated, safe, and stable condition, unless an agreement is made with the landowner or BLM to keep the road and/or pad intact.

After all disturbed areas have been satisfactorily prepared, these areas need to be revegetated with the seed mixture provided below. Seeding should be accomplished by drilling on the contour whenever practical or by other approved methods. Seeding may need to be repeated until revegetation is successful, as determined by the BLM.

Operators shall contact a BLM surface protection specialist prior to surface abandonment operations for site specific objectives (Jim Amos: 575-234-5909).

#### Seed Mixture 2, for Sandy Sites

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

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

Species to be planted in pounds of pure live seed\* per acre:

Species	l <u>b/acre</u>
Sand dropseed (Sporobolus cryptandrus)	1.0
Sand love grass (Eragrostis trichodes)	1.0
Plains bristlegrass (Setaria macrostachya)	2.0

\*Pounds of pure live seed:

24

Pounds of seed x percent purity x percent germination = pounds pure live seed