UNITED ST. DEPARTMENT OF 1 BUREAU OF LAND	esia	FORM APPROVED OMB No. 1004-0137 Expires October 31, 2014 5. Lease Serial No. NM-15003				
APPLICATION FOR PERMIT	TO DRILL OR REENTER		6. If Indian, Allotee	or Tribe Name		
la. Type of work: 🗹 DRILL 🗌 R	EENTER	<u></u>	7 If Unit or CA Agro	cement, Name and No.		
lb. Type of Well: 🔽 Oil Well 🔲 Gas Well 🔲 Other	Single Zone	Aultiple Zone	8. Lease Name and GOVERNMENT A	Well No. B FEDERAL #15		
2. Name of Operator OXY USA WTP Limited Partners	hip < 19240	637	9. APL Well No.	5-41612		
3a. Address P.O. BOX 4294 HOUSTON, TX 77210	3b. Phone No. (include area coo 713-513-6640	le) [•]	10. Field and Pool, or	Exploratory		
4. Location of Well (Report location clearly and in accordance At surface 2020' FSL & 660' FWL At proposed pred 2000' FSL & 660' FWL	with any State requirements.*)		11. Sec., T. R. M. or B L, SEC 10, T20S, F	Blk.and Survey or Area		
14. Distance in miles and direction from nearest town or post offi	ice*		12. County or Parish	13. State		
 15. Distance from proposed* 660' location to nearest property or lease line, ft. (Also to nearest driv unit line if any) 	16. No. of acres in lease 1720	16. No. of acres in lease 17. Spacin 1720 40		well		
 18. Distance from proposed location* 1256' to nearest well, drilling, completed, applied for, on this lease, ft. 	19. Proposed Depth 6700' MD / 6700' TVD	pposed Depth 20. BLM/E MD / 6700' TVD ESB000:		1/BIA Bond No. on file 10226		
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3290.4' GL	22. Approximate date work wi	23. Estimated duration 16 DAYS				
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest Surface Officient Surface Control of the surrouting Surface Service Officient Service Officient Service Officient Service Officient Service Officient Service Service Officient Service Servic	4. Bond to conterm 20 about the 20 about the 20 about the 20. System Lands, the contermation of the 20. 5. Operator contermation of the 20. 6.	over the operati ove). ertification r site specific in	ons unless covered by an formation and/or plans a:	n existing bond on file (see s may be required by the		
Sor o must be med whith the appropriate rolest bervice Off	BĻM.		iate@ovy.com)	Date 04/11/2013		
25. Signature	Name (PrintediTyped) JENNIFER DUART	E (jennifer_du		1		
25. Signature Title REGULATORY ANALYST Approved by (Signature)/s/George MacDonell	Name (Printed/Typed) JENNIFER DUART Name (Printed/Typed)	E (jennifer_du	MacDonell			
25. Signature Title REGULATORY ANALYST Approved by (Signature)/S/George MacDonell Title FIELD MANAGER	Name (Printed/Typed) JENNIFER DUART Name (Printed/Typed) Office	E (jennifer_du	MacDonell	Date AUG 1 4 201		
25. Signature Title REGULATORY ANALYST Approved by (Signature)/s/George MacDonell Title FIELD MANAGER Application approval does not warrant or certify that the application operations thereon	Name (Printed/Typed) JENNIFER DUART Name (Printed/Typed) //S/ Office CAR!_SBA	E (jennifer_du /George AD FIELD OI e rights in the st	MacDonell FICE	Date AUG 1 4 201 entitle the applicant to		
25. Signature Title REGULATORY ANALYST Approved by (Signature)/S/George MacDonell Title FIELD MANAGER Application approval does not warrant or certify that the application approval does not warrant or certify that the application of approval, if any, are attached. Title 18 LISC Section 1001 and Title 43 LISC Section 1212 mole	Name (Printed/Typed) JENNIFER DUART Name (Printed/Typed) Office CAR! SBA ant holds legalor equitable title to those	E (jennifer_du /George AD FIELD OI e rights in the su AP	MacDonell FFICE bject lease which would PROVAL FOF	Date AUG 1 4 201 entitle the applicant to R TWO YEARS		
25. Signature Title REGULATORY ANALYST Approved by (Signature)/S/George MacDonell Title FIELD MANAGER Application approval does not warrant or certify that the application does not warrant or certify that the application of approval, if any, are attached. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, mak States any false, fictitious or fraudulent statements or represental	Name (Printed/Typed) JENNIFER DUART Name (Printed/Typed) Office CAR!_SBA ant holds legal or equitable title to those e it a crime for any person knowingly ions as to any matter within its jurisdicti	E (jennifer_du /George AD FIELD OI e rights in the su AP and willfully to on.	MacDonell FICE bject lease which would PROVAL FOF make to any department	Date AUG 1 4 201 entitle the applicant to <u>R TWO YEARS</u> or agency of the United		
25. Signature Title REGULATORY ANALYST Approved by (Signature)/S/George MacDonell Title FIELD MANAGER Application approval does not warrant or certify that the application approval does not warrant or certify that the applications of approval, if any, are attached. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, mak States any false, fictitious or fraudulent statements or represental (Continued on page 2)	Name (Printed/Typed) JENNIFER DUART Name (Printed/Typed) Office CAR!_SBA ant holds legal or equitable title to those tions as to any matter within its jurisdicti	E (jennifer_du /George AD FIELD OI e rights in the su <u>AP</u> and willfully to on.	MacDonell FICE bject lease which would PROVAL FOF make to any department *(Inst Capitan Contro	Date AUG 1 4 201 entitle the applicant to R TWO YEARS or agency of the United tructions on page 2) filed Water Basir		

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District 1 1625 N. French Dr., Hobbs, NM 88240 Fleane: (575) 393-6161 Fax: (575) 393-0720 District II 811 S. First St., Antesia, NM 88210 Fhene: (575) 788-1283 Fax: (553) 786-9720 District III 1000 Rio Braizes Road, Antes, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Fhone: (505) 476-3460 Fax: (505) 476-3462

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State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

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

AMENDED REPORT

·	WELL LOCATION AND ACREAGE DEDICATION PLAT											
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$\gamma \gamma L$	ту С.оае		395	92 GO	VERNME	Property NT /	Name R FFDF	PAI			Well Number /	
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L	10	20 S	OUTH	28 EAST, N	İ. M. P. M.		2020'	SOUTH	660'	WEST	EDDY	
	L			Bottom He	ole Locatio	on If l	Different I	From Surfac	e			
UL or lot no.	Section	Tow	nship	Range		Lot Idn	Feet from the	North/South line	Feet from the	East/West	line County	
Dèdicated H ()	Acres	Joint c	r Infill	Consolidation Code	Order No.	1	.	<u> </u>				
No allowa	able wi	ll be ass	igned to	this completion	Intil all inter	ests ha	ve been con	solidated or a	non-standard	unit has bee	en approved by the	J
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660'	2020'		SURF NEW	ACE LOCATION MEXICO EAST NAD 1927 (=577060.5 (=549945.0 N 32.5863406' W 104.1711774'					SUR I heireby plat was made by same is t Same is t Date of t Signatum Professio	VEYOR CERT certify the Di- placed room and medar undersolv run and correct PDDRUARY Survey T Survey T Survey T Survey T	TTCA TTONE TOTCA TTONE TOTCA TTONE TOTCA TOTCALLA SUPPOSE Supervision Order that the the back of my better 15079 B 5-2013 G 5-2013 G 4L LAND SUP	
									Certifica	ner Ol	Dail 2/8/2013 15079	•

OPERATOR CERTIFICATION

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions that presently exist; that I have full knowledge of State and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements. Executed this <u>1310</u> day of <u>Macch</u>, 2013.

Nama: Apthony/DiAddiago
Name:Anthony D'Addieco
Position:Reservoir Management Team Leader
Address:5 Greenway Plaza, Suite 110, Houston, TX 77046
Telephone:713-350-4964
E-mail: (optional):Anthony_DAddieco@oxy.com
Company:Occidental Permian LP / OXY USA Inc / OXY USA WTP LP
Field Representative (if not above signatory):Dusty Weaver
Address (If different from above): _P.O. Box 50250 Midland, TX 79710
Telephone (if different from above):432-685-5723
E-mail (if different from above):calvin_weaver@oxy.com

LOCATION VERIFICATION MAP



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VICINITY MAP







Propased Plowline Diagram

Approximately9140' of 4' SDR 7' polyethylene production flowline (oil, gas, and water) to be laid on surface to the Government AB Federal #2 battery Operating Pressure < 125 psig

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APD DATA - DRILLING PLAN -

OPERATOR NAME / NUMBER: OXY USA

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LEASE NAME / NUMBER: Government AB 15

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

SURFACE LOCATION: <u>2020' FSL & 660' FWL, Sec 10, T20S, R28E</u>

Surface Location: LAT: 32.5863406 N LONG: 104.1711774 W X: 549945.0 Y: 577060.5 NAD: 27

C-102 PLAT APPROX GR ELEV: 3290.4' EST KB ELEV: 3306.9 (16.5' KB)

1. GEOLOGIC NAME OF SURFACE FORMATION:

a. Permian

2. ESTIMATED FOMATION TOPS (FROM KB):

Formation	TV Depth Top	Expected Fluids
Salado	410'	
T. Tansill	968'	
T. Yates	1145'	
T. Seven Rivers	1329'	
T. Queen	1950'	
T. Capitan Reef	2948'	
T. Delaware	3090'	
T. Cherry Canyon	3210'	Poss HC
T. Brushy Canyon	3412'	HC
T. Bone Spring	4790'	HC
T. 1 st Bone Spring Sand	6303'	HC
Target 1 st Bone Spring Sand	6700'	HC

A. Based on the State Engineer Website nearby water wells have been drilled to a depth of less than 200'. Based on offset wells casing programs, a surface casing at 350' should cover any possible fresh water zones above the Salado.

3150

B. Intermediate casing at 3050' will cover the Capitan Reef. If any lost circulation occurs below the Base of the Salt drilling fluid will be switched to fresh water until setting the intermediate casing.

GREATEST PROJECTED TD: 6700' MD/ 6700' TVD OBJECTIVE: 1st Bone Spring Sand

3. CASING PROGRAM: (All casing is in NEW condition)

Surface Casing: 11.75" casing set at ± 350' MD/ 350' TVD in a 14 ¾" hole filled with 8.40 ppg mud

	Interval	Length	Wt	Gr	Cplg	Coll Rating (psi)	Burst Rating (psi)	Jt Str (M-lbs)	ID (in)	Drift (in)	SF Coll	SF Burst	SF Ten
	0'- 350'	350'	42	H-40	ST&C	1070	1980	307	11.084	10.928	9.08	1.93	23.96
	Intermed	iate Casing	: 8.625" (casing se	t at ± 3050	'MD / 305	50'TVD in	a 10 5/8" h	ole filled v	with 10 pp	g mud/ fr	esh wate	r
018	Interval ろいの	Length 3150	Wt	Gr	Cplg	Coll Rating (psi)	Burst Rating (psi)	Jt Str (M-lbs)	ID (in)	Drift (in)	SF Coll	SF Burst	SF Ten
- TA	0'- 305 0'	3050'	32	J-55	LT&C	2530	3930	417	7.921	7.875	2.46	1.74	4.90
	Producti	on Casing	: 5.5" ca	ising set	at ± 6700)'MD / 67	00'TVD i	n a 7 7/8"	hole fille	d with 8.4	40 ppg n	nud	
	Interval	Length	Wt	Gr	Cpig	Coll Rating (psi)	Burst Rating (psi)	Jt Str (M-lbs)	ID (in)	Drift (in)	SF Coll	SF Burst	SF Ten
	0'- 6700'	6700'	17	L-80	LT&C	6290	7740	338	4.892	4.767	2.15	3.43	3.40

Collapse and burst loads calculated using Stress Check with actual anticipated loads.

4. CEMENT PROGRAM:

Surface	Interval
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	Interval	Amount sx	Ft of Fill	Туре	Gal/Sk	PPG	Ft ³ /sk	24 Hr Comp
01	Surface (TOC:	0' - 350')						
11/4	Lead: 0' – <u>350'</u> (300% Excess)	480	350'	Premium Plus Cement: 2% Calcium Chloride	6.37	14.8	1.35	1326 psi

Intermediate Interval

85/8

51/2

Interval	Amount sx	Ft of Fill	Туре	Gal/Sk	PPG	Ft ³ /sk	24 Hr Comp
Stage 1: Interm	Stage 1: Intermediate (TOC: 0' – 3050')						
Lead: 0' - 1782' (200%Excess)	1400	1782'	Light Premium Plus Cement: 3 lbm/sk Salt, 0.125 lb/sk Poly-E-Flake, 5 lbm/sk Kol-Seal	9.48	12.9	1.86	500 psi
Tail: 1782' – <u>3050</u> ' (200%Excess)	210	1268'	Premium Plus Cement: 1% Calcium Chloride	6.36	14.8	1.34	1650 psi
			DV TOOL @ 1750'				
If cer	nent return	is during	first stage; DV cancellation tool will be use	ed and seco	nd stage	cancelle	d
Stage 2: Interm	ediate (TO	C: 0' – 1	750')				
Lead: 0' – 1538' (200%Excess)	460	1538'	Light Premium Plus Cement: 3 lbm/sk Salt, 0.125 lb/sk Poly-E-Flake, 5 lb/sk Kol-Seal	9.48	12.9	1.86	500 psi
Tail: 1538' – <u>1750</u> ' (200%Excess)	100	212'	Premium Plus Cement: 1% Calcium Chloride	6.36	14.8	1.34	1650 psi

Production Interval

Interval	Amount sx	Ft of Fill	Туре	Gal/Sk	PPG	Ft ³ /sk	24 Hr Comp
Stage 1: Produ	Stage 1: Production (TOC: 3500' - 6700 ')						
Lead: 3500' – 5500' (85 %Excess)	270	2000'	50/50 Poz Premium Plus: 8 % Bentonite, 0.125 lbm/sk Poly-E- Flake, 5 % Salt, 2 lbm/sk Kol-Seal	13.96	11.8	2.45	332 psi
Tail: 5500' – <u>6700'</u> (85% Excess)	260	1342'	Premium Plus Cement: 0.3 % CFR-3, 0.3 % Econolite, 5 lbm/sk Microbond, 0.2 % WellLife 734, 0.5 % Halad(R)-344	7.72	14.2	1.55	1914 psi
			DV TOOL @ 3500'			· · · · · · · · · · · · · · · · · · ·	
Stage 2: Produ	ction (TOC	: 0' - 350)0')				
Lead: 0' – 3086' (85 %Excess)	300	3086'	Light Premium Plus Cement: 3 % Salt, 3 lb/sk Kol Seal	11.26	12.4	2.07	447 psi
Tail: 3086' – <u>3500'</u> (85% Excess)	100	414'	Premium Plus Cement	6.34	14.8	1.33	1 <u>692 psi</u>

Description of Cement Additives: Calcium Chloride - Flake (Accelerator), Poly-E-Flake (Lost Circulation Additive), Kol-Seal (Lost Circulation Additive), Bentonite (Light Weight Additive), CFR-3 (Dispersant), Econolite (Light Weight Additive), Microbond (Expander), WellLife 734 (Cement Enhancer), Halad(R)-344 (Low Fluid Loss Control)

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5. DIRECTIONAL PLAN

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Please see attached directional plan.

6. PRESSURE CONTROL EQUIPMENT:

Surface: 0 - 350' None.

Intermediate: <u>0 - 3050</u>[•] the minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required to drill below the surface casing shoe shall be 3000 (3M) psi. Operator will be using an 11" 5M two ram stack with 5M annular preventer and 5M Choke Manifold.

- a. The 11" 5000 psi blowout prevention equipment will be installed and operational after setting the 11 3/4" surface casing and the 11 3/4" SOW x 13 5/8" 3K conventional wellhead; the rotating head body will be installed but the rubber will be installed when it becomes operationally necessary.
- b. The BOP and ancillary BOPE will be tested by a third party. All equipment will be tested to <u>250/1386</u> against the surface casing (70% of casing burst) psi for 30 minutes by a third party and charted.
- c. The pipe rams will be function tested every 24 hours; the blind rams will be function tested on every trip out of the hole. These tests will be documented on the Daily Driller's Log.
- d. Other accessory equipment (BOPE) will include a safety valve and subs as needed to fit all drill strings, and a 2" kill line and 3" choke line having a 5000 psi WP rating, tested to 3000 psi.

Production: 0 - 6700, will be drilled with an 11" 5M two ram stack with a 5M annular preventer and 5M Choke Manifold

- a. The BOP and ancillary BOPE will be tested by a third party upon installation to the 8 5/8" intermediate casing. All equipment will be tested to 250 psi (low) and 5000 psi (high) except the annular, which will be tested to 70% of its rated working pressure, 250 psi (low) and 3500 psi (high) for ten minutes each. All test will performed against a test plug with the Section B Wellhead valve open to assure that the test is not being performed against the casing.
- e. The pipe rams will be function tested every 24 hours; the blind rams will be function tested on every trip out of the hole. These tests will be documented on the Daily Driller's Log.
- b. Same "c" ands "d" as above
- c. Oxy requests a variance to use a co-flex line between the BOP and choke manifold. (schematic attached)
 Manufacturer: <u>ContiTech Beattie Co.</u>

Serial Number: 60220 Length: 25' Size: 3" WP rating: 5000 psi

Ends:<u>flanges</u> Anchors required by manufacturer: <u>No</u>

d. See attached BOP & Choke manifold diagrams.

7. MUD PROGRAM:

Depth	Mud Wt ppg	Vis Sec	Fluid Loss	Type System
0 – 350'	8.4 - 8.8	32 - 38	NC	Fresh Water /Spud Mud
350'-2900' Z, F	D' 9.8 - 10.0	28 - 29	NC	Brine Water
2900' - 3050'	8.4-8.8	26-28	NC	Fresh Water
3050' - 6700'	8.4-8.8	26-28	NC	Fresh Mud

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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.

b. Hydrogen Sulfide detection equipment will be in operation after drilling out the surface casing shoe until the production casing is cemented. Breathing equipment will be on location upon drilling the surface casing shoe until total depth is reached. <u>If Hydrogen Sulfide is encountered</u>, measured amounts and formations will be reported to the BLM

9. POTENTIAL HAZARDS:

- a. H2S
- b. The bottomhole pressure is anticipated to be 2950 psi. (0.44 psi/ft)
- c. No abnormal temperatures or pressures are anticipated.
- d. 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 location is built. Move in operations and drilling is expected to take 18 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.

10. MUD AND WIRELINE LOGGING:

- a. Mud logging from Intermediate casing to TD.
- b. Run Gamma/Neutron/Density/Resistivity from TD to Intermediate casing, with Gamma/Neutron to surface.

COMPANY PERSONNEL:

<u>Name</u>	<u>Title</u>	Office Phone	Mobile Phone
Anthony Tschacher	Drilling Engineer	(713)985-6949	(832)270-6883
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

5M CHOKE MANIFOLD CONFIGURATION











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Quality Document

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IOSE SERIAL Nº:	53059	NOMINAL / ACT	UAL LENGTH		8,84 m		
V.P. 34,48 MPa	5000 psi	T.P. 68,96	MPa 1000	0 psi	Duration:	60	mir
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Fluid Technology Quality Document

CERTIFICATE OF CONFORMITY

Supplier CONTITECH RUBBER INDUSTRIAL KFT. Equipment: 8 pcs. Choke and Kill Hose with installed couplings 3" x 8,84 m WP: 5000 psi Type : /Fire rated/ **Supplier File Number** 415347 Date of Shipment May. 2008 Phoènix Béattie Co. Customer 002523 Customer P.o. **Referenced Standards** / Codes / Specifications API Spec 16 C

Serial No.: 53053,53054,53055,53056,53057,53058,53059,53060

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 : back

Position: Q.C. Manager

ContiTech Rubber Industrial Kft. Quality Control Dept.

Date: 22. May. 2008

ComiTech Rubber Industrial Kit. Buttapeza oli 10., Szeged H 6728 P.O.Box 152 Szeged H-6701 Hungary Phone: -36.62.566.737 Fax: -36.62.506-738 e-mail: info@fuid.contilech.hu Internet: www.contilech.hu The Court of Coongrad County as Registry Court Registry Court No: HU 05:09:002502 EU VAT No: HU 11087209 Baak data Çanımerzbunk Zrt. Budapest 14220108-25630003





OXY USA INC/ OXY USA WTP LP/ OCCIDENTAL PERMIAN LP

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NEW MEXICO STAKING FORM

DATE STAKED: 12-04-2012
LEASE/WELL NAME & #: GOVERNMENT AB FEDERAL #15
LAT/LONG:
MOVE INFORMATION: <u>40' NORTH – PIPELINE</u>
COUNTY: EDDY, NM
SURFACE OWNER: BLM
NEAREST RESIDENCE:
NEAREST WATER WELL:
V-DOOR: EAST
ROAD DESCRIPTION: ROAD INTO SE CORNER FROM SOUTH
RECLAMATION:
SOURCE OF CALICHE:

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OXY USA WTP LIMITED PÄRTNERSHIP Government AB Federal 15 SHL: 2020 FSL & 660 FWL, Section: 10, T.20S., R.28E. BHL: 2020 FSL & 660 FWL, Section: 10, T.20S., R.28E.

Surface Use Plan of Operations

Introduction

The following surface use plan of operations will be followed and carried out once the APD is approved. No other disturbance will be created other than what was submitted in this surface use plan. If any other surface disturbance is needed after the APD is approved, a BLM approved sundry notice or right of way application will be acquired prior to any new surface disturbance.

Before any surface disturbance, is created, stakes or flagging will be installed to mark boundaries of permitted areas of disturbance, including soils storage areas. As necessary, slope, grade, and other construction control stakes will be placed to ensure construction in accordance with the surface use plan. All boundary markers will be maintained in place until final construction cleanup is completed. If disturbance boundary markers are disturbed or knocked down, they will be replaced before construction proceeds.

If terms and conditions are attached to the approved APD and amend any of the proposed actions in this surface use plan, we will adhere to the terms and conditions.

1. Existing Roads

a. The existing access road route to the proposed project is depicted on Public Access Points. Improvements to the driving surface will be done where necessary. No new surface disturbance will be done, unless otherwise noted in the New or Reconstructed Access Roads section of this surface use plan.

b. The existing access road route to the proposed project does not cross lease or unit boundaries, so a BLM rightof-way grant will not be acquired for this proposed road route.

c. Existing oil and gas roads utilized to access the proposed project will be maintained by blade, water & repair as required/needed. All existing structures on the entire access route such as cattleguards, other range improvement projects, culverts, etc. will be properly repaired or replaced if they are damaged or have deteriorated beyond practical use.

c. Existing oil and gas roads utilized to access the proposed project will be maintained by blade, water & repair as required/needed. All existing structures on the entire access route such as cattleguards, other range improvement projects, culverts, etc. will be properly repaired or replaced if they are damaged or have deteriorated beyond practical use.

2. New or Reconstructed Access Roads

a. No new road will be constructed for this project.

3. Location of Existing Wells

a. 1 Mile Raduis map of the APD depicts all known wells within a one mile radius of the proposed well.

b. There is no other information regarding wells within a one mile radius.

4. Location of Existing and/or Proposed Production Facilities

a. All permanent, lasting more than 6 months, above ground structures including but not limited to pumpjacks, storage tanks, meter housing that are not subject to safety requirements will be painted a non-reflective paint color that blends in with the surrounding landscape. The paint color will be one of the colors from the BLM Standard Environmental Colors chart selected by the BLM authorized officer.

b. If production facilities are located on the well pad, they will be strategically placed to allow for maximum interim reclamation, recontouring, and revegetation of the well location.

8. Ancillary Facilities

a. No ancillary facilities will be needed for this proposed project.

9. Well Site Layout

a. The survey plat or other diagrams have the following necessary information for the BLM:

- i. reasonable scale (near 1":50')
- ii. well pad dimensions
- iii. well pad orientation
- iv. drilling rig components
- v. proposed access road
- vi. elevations of all points
- vii. topsoil stockpile
- viii. reserve pit location/dimensions if applicable
- ix. other disturbances needed (flare pit, stinger, frac farm pad, etc.)
- x. depict existing structures within the 600' x 600' archeological surveyed area (pipelines, electric lines, well pads, etc.)

b. The proposed drilling pad was staked and surveyed by a professional surveyor. The attached survey plat of the well site depicts the drilling pad layout as staked.

c. A title of a well site diagram is H&P 344 Rig Diagram. This diagram depicts the reclaimed area, dimensions of pad.

d. Topsoil Salvaging

i. Grass, forbs, and small woody vegetation, such as sagebrush will be excavated as the topsoil is removed.Large woody vegetation will be stripped and stored separately and respread evently on the site following topsoil respreading.Topsoil depth is defined as the top layer of soil that contains 80% of the roots. In areas to be heavily disturbed, the top 6 inches of soil material, will be stripped and stockpiled on the perimeter of the well location and along the perimeter of the access road to control run-on and run-off, to keep topsoil viable, and to make redistribution of topsoil more efficient during interim reclamation. Stockpiled topsoil should include vegetative material. Topsoil will be clearly segregated and stored separately from subsoils. Contaminated soil will not be stockpiled, but properly treated and handled prior to topsoil salvaging.

10. Plans for Surface Reclamation

a. Reclamation Objectives

i. The objective of interim reclamation is to restore vegetative cover and a portion of the landform sufficient to maintain healthy, biologically active topsoil; control erosion; and minimize habitat and forage loss, visual impact, and weed infestation, during the life of the well or facilities. The long-term objective of final reclamation is to return the land to a condition approximating that which existed prior to disturbance. This includes restoration of the landform and natural vegetative community, hydrologic systems, visual resources, and wildlife habitats. To ensure that the long-term objective will be reached through human and natural processes, actions will be taken to ensure standards are met for site stability, visual quality, hydrological functioning, and vegetative productivity.

ii. The BLM will be notified at least 3 days prior to commencement of any reclamation procedures.

iii. If circumstances allow, interim reclamation and/or final reclamation actions will be completed no later than 6 months from when the final well on the location has been completed or plugged. We will gain written permission from the BLM if more time is needed.

iv. Interim Reclamation

1. Interim reclamation will be performed on the well site after the well is drilled and completed. H&P 344 Rig Diagram depicts the location and dimensions of the planned interim reclamation for the well site.

2. Within 30 days of well completion, the well location and surrounding areas will be cleared of, and maintained free of, all materials, trash, and equipment not required for production.

3. In areas planned for interim reclamation, all the surfacing material will be removed and returned to the original mineral pit or recycled to repair or build roads and well pads.

4. The areas planned for interim reclamation will then be recontoured to the original contour if feasible, or if not feasible, to an interim contour that blends with the surrounding topography as much as possible. Where applicable, the fill material of the well pad will be backfilled into the cut to bring the area back to the original contour. The interim cut and fill slopes prior to re-seeding will not be steeper than a 3:1 ratio, unless the adjacent native topography is steeper. Note: Constructed slopes may be much steeper during drilling, but will be recontoured to the above ratios during interim reclamation.

5. Topsoil will be evenly respread and aggressively revegetated over the entire disturbed area not needed for all-weather operations including cuts & fills. To seed the area, the proper BLM seed mixture, free of noxious weeds, will be used. Final seedbed preparation will consist of contour cultivating to a depth of 4 to 6 inches within 24 hours prior to seeding, dozer tracking, or other imprinting in order to break the soil crust and create seed germination micro-sites.

6. Proper erosion control methods will be used on the area to control erosion, runoff and siltation of the surrounding area.

7. The interim reclamation will be monitored periodically to ensure that vegetation has reestablished and that erosion is controlled.

iv. Final Reclamation (well pad, buried pipelines, etc.)

1. Prior to final reclamation procedures, the well pad, road, and surrounding area will be cleared of material, trash, and equipment.

2. All surfacing material will be removed and returned to the original mineral pit or recycled to repair or build roads and well pads.

3. All disturbed areas, including roads, pipelines, pads, production facilities, and interim reclaimed areas will be recontoured to the contour existing prior to initial construction or a contour that blends indistinguishably with the surrounding landscape. Topsoil that was spread over the interim reclamation areas will be stockpiled prior to recontouring. The topsoil will be redistributed evenly over the entire disturbed site to ensure successful revegetation.

4. After all the disturbed areas have been properly prepared, the areas will be seeded with the proper BLM seed mixture, free of noxious weeds. Final seedbed preparation will consist of contour cultivating to a depth of 4 to 6 inches within 24 hours prior to seeding, dozer tracking, or other imprinting in order to break the soil crust and create seed germination micro-sites.

5. Proper erosion control methods will be used on the entire area to control erosion, runoff and siltation of the surrounding area.

6. All unused equipment and structures including pipelines, electric line poles, tanks, etc. that serviced the well will be removed.

7. All reclaimed areas will be monitored periodically to ensure that revegetation occurs, that the area is not redisturbed, and that erosion is controlled.

11. Surface Ownership

a. The surface ownership of the proposed project is BLM.

12. Other Information

a. None.

13. Maps and Diagrams

Public Access Points - Existing Road 1 Mile Raduis map - Wells Within One Mile Flowline Diagram - Production Pipeline H&P 344 Rig Diagram - Well Site Diagram H&P 344 Rig Diagram - Interim Reclamation

PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME:	OXY USA WTP Limited Partnership
LEASE NO.:	NMNM-15003
WELL NAME & NO.:	Government AB Federal 15
SURFACE HOLE FOOTAGE:	2020' FSL & 0660' FWL
LOCATION:	Section 10, T. 20 S., R 28 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 **Permit Expiration** Archaeology, Paleontology, and Historical Sites **Noxious Weeds** Special Requirements Cave/Karst **Construction** Notification Topsoil **Closed Loop System** Federal Mineral Material Pits Well Pads Roads **Road Section Diagram Drilling** H2S requirements High Cave/Karst Capitan Reef Logging Requirements Waste Material and Fluids **Production** (Post Drilling) Well Structures & Facilities **Pipelines Electric Lines Interim Reclamation Final Abandonment & Reclamation**

I. GENERAL PROVISIONS

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

II. PERMIT EXPIRATION

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

III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

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

IV. NOXIOUS WEEDS

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

V. SPECIAL REQUIREMENT(S)

Cave and Karst

** Depending on location, additional Drilling, Casing, and Cementing procedures may be required by engineering to protect critical karst groundwater recharge areas.

Cave/Karst Surface Mitigation

The following stipulations will be applied to minimize impacts during construction, drilling and production.

Construction:

In the advent that any underground voids are opened up during construction activities, construction activities will be halted and the BLM will be notified immediately.

No Blasting:

No blasting will be utilized for pad construction. The pad will be constructed and leveled by adding the necessary fill and caliche.

Pad Berming:

The pad will be bermed to prevent oil, salt, and other chemical contaminants from leaving the pad. All sides will be bermed.

Tank Battery Liners and Berms:

Tank battery locations will be lined and bermed. A 20 mil permanent liner will be installed with a 4 oz. felt backing to prevent tears or punctures. Tank battery berms must be large enough to contain $1\frac{1}{2}$ times the content of the largest tank.

Leak Detection System:

A method of detecting leaks is required. The method could incorporate gauges to measure loss, situating values and lines so they can be visually inspected, or installing electronic sensors to alarm when a leak is present. Leak detection plan will be submitted to BLM for approval.

Automatic Shut-off Systems:

Automatic shut off, check values, or similar systems will be installed for pipelines and tanks to minimize the effects of catastrophic line failures used in production or drilling.

Cave/Karst Subsurface Mitigation

The following stipulations will be applied to protect cave/karst and ground water concerns:

Rotary Drilling with Fresh Water:

Fresh water will be used as a circulating medium in zones where caves or karst features are expected. SEE ALSO: Drilling COAs for this well.

Directional Drilling:

Kick off for directional drilling will occur at least 100 feet below the bottom of the cave occurrence zone. SEE ALSO: Drilling COAs for this well.

Lost Circulation:

ALL lost circulation zones from the surface to the base of the cave occurrence zone will be logged and reported in the drilling report.

Regardless of the type of drilling machinery used, if a void of four feet or more and circulation losses greater than 70 percent occur simultaneously while drilling in any cavebearing zone, the BLM will be notified immediately by the operator. The BLM will assess the situation and work with the operator on corrective actions to resolve the problem.

Abandonment Cementing:

Upon well abandonment in high cave karst areas additional plugging conditions of approval may be required. The BLM will assess the situation and work with the operator to ensure proper plugging of the wellbore.

Pressure Testing:

Annual pressure monitoring will be performed by the operator on all casing annuli and reported in a sundry notice. If the test results indicated a casing failure has occurred, remedial action will be undertaken to correct the problem to the BLM's approval.

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: 400' + 100' = 200' lead-off ditch interval 4%

Culvert Installations

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

Cattleguards

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

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

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

Fence Requirement

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

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

Public Access

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

Figure 1 - Cross Sections and Plans For Typical Road Sections



VII. DRILLING

A. DRILLING OPERATIONS REQUIREMENTS

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

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

Eddy County

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

- 1. Hydrogen Sulfide has been reported, but no measurements have been recorded. Operator has stated that they will have monitoring equipment in place prior to drilling out of the surface shoe. If Hydrogen Sulfide is encountered, please report measurements and formations to the BLM.
- 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 shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

B. CASING

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

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

Wait on cement (WOC) time prior to drilling out for a primary cement job will be a minimum 18 hours for a water basin, 24 hours in the potash area, or 500 pounds compressive strength, whichever is greater for all casing strings. DURING THIS WOC TIME, NO DRILL PIPE, ETC. SHALL BE RUN IN THE HOLE. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. 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.

High Cave/Karst Possibility of lost circulation in the Grayburg, San Andres, Capitan Reef (if encountered), Delaware, and Bone Springs

- 1. The **11-3/4** inch surface casing shall be set at approximately **350** feet (a minimum of 25 feet into the Rustler Anhydrite and above the salt) and cemented to the surface. If salt is encountered, set casing at least **25** feet above the salt.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.

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

- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.

Special Capitan Reef requirements:

If any lost circulation occurs below the Base of the Salt, the operator shall do the following:

- Switch to fresh water mud to protect the Capitan Reef and use fresh water mud until setting the intermediate casing. The appropriate BLM office is to be notified for a PET to witness the switch to fresh water.
- Daily drilling reports from the Base of the Salt to the setting of the intermediate casing are to be submitted to the BLM CFO engineering staff via e-mail by 0800 hours each morning. Any lost circulation encountered is to be recorded on these drilling reports. The daily drilling report should show mud volume per shift/tour. Failure to submit these reports will result in an Incidence of Non-Compliance being issued for failure to comply with the Conditions of Approval. If not already planned, the operator shall run a caliper survey for the intermediate well bore and submit to the appropriate BLM office.
- 2. The minimum required fill of cement behind the **8-5/8** inch intermediate casing, which shall be set at approximately **3150** feet(at the base on the Capitan Reef), 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 or potash.

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

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

Operator has proposed DV tool at depth of 3500'. 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 above DV tool:
- Cement to surface. If cement does not circulate, contact the appropriate BLM office. Excess calculates to 22% Additional cement may be required.

4. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

C. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 2. Variance approved to use flex line from BOP to choke manifold. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor. If the BLM inspector questions the straightness of the hose, a BLM engineer will be contacted and will review in the field or via picture supplied by inspector to determine if changes are required (operator shall expect delays if this occurs).
- 3. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **3000** (**3M**) psi.
 - a. For surface casing only: If the BOP/BOPE is to be tested against casing, the wait on cement (WOC) time for that casing is to be met (see WOC statement at start of casing section). Independent service company required.
- Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 8-5/8 intermediate 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.

- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - b. The tests shall be done by an independent service company utilizing a test plug **not a cup or J-packer**.
 - c. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock.
 - 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

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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 APD/Sundry Notice 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 et seq. (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.

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.

b.

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.

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 24 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.

C. ELECTRIC LINES (Not applied for in APD)

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 4, for Gypsum 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

	<u>lb/acre</u>
Alkali Sacaton (Sporobolus airoides)	1.0
DWS Four-wing saltbush (Atriplex canescens)	5.0

DWS: DeWinged Seed

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