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Form 3160-3 (August 2097)	OCD-HOBB	S	OMB No. 10 Expires July	004-0137 EA - OY
UNITED STA DEPARTMENT OF TH			5. Lease Serial No.	
BUREAU OF LAND M		ctata	LC 063458 6. If Indian, Allotee or	T.1. M.
APPLICATION FOR PERMIT	TO DRILL OR REENTER-	Statu		
la. Type of work: I DRILL	ENTER		7 If Unit or CA Agreem	23149
lb. Type of Well: 🖌 Oil Well 🔲 Gas Well 🗌 Other	Single Zone	Aultiple Zone	28. Leave Name and We Warren Unit 335	Blinebry -Tubb
2. Name of Operator ConocoPhillips Company			9 API Well No. 30-02	5-39513
3a. Address P.O. Box 51810 Midland, Texas 79710-1810	3b. Phone No. (include area cod 432-688-6913	le)	10, Field and Pool, or Exp Warren: Drinkard; Blin	warren
4. Location of Well (Report location clearly and in accordance wi At surface 10' FNL & 1310' FWL, Section 34, T20S,			11. Sec., T. R. M. of Blk. Section 34, T20S, R3	-
At proposed prod. zone 14 Distance in miles and direction from nearest town or post office ⁴ Approximately 9 miles south of Hobbs, NM	k		12. County or Parish Lea	13. State NM
 15 Distance from proposed* 5270' location to nearest property or lease line, ft (Also to nearest drig, unit line, if any) 	16 No. of acres in lease 5120	17. Spacin 40 acres	g Unit dedicated to this wel	1
 18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft 	19 Proposed Depth 7120'	20 BLM/I ES-0085	BIA Bond No. on file	
21 Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work wi	ill start*	23. Estimated duration	
	1 02/15/2000			
3530' GL The following, completed in accordance with the requirements of O 1. Well plat certified by a registered surveyor.	4 Bond to co	over the operation	s form: s unless covered by an ex	isting bond on file (see
The following, completed in accordance with the requirements of O	24. Attachments nshore Oil and Gas Order No.1, must 4 Bond to co Item 20 abo 5 Operator co 6. Such other	over the operation ove). ertification	s form:	
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	-27			bottom hale location or has bottom hale location or has a constract with an owner woundary pooling agreement the division.	Date Date	inducy the proposed location pursuant to g interest, or to a arrelatore entered by 2 - 3 - 05
3532.2' 10' 3527.2'	-34			I hereby certify on this plat we actual surveys supervison an correct to the Nover	that the well local as plotted from fiel made by me or that the same is e best of my bela best of my bela	tron shown d notes of under my s true and ef.
	527.2'	527.2' 34 on are Transverse o the "New Mexico	527.2' 34 ion are Transverse b the "New Mexico	527.2' 34 ion are Transverse b the "New Mexico	10' 527.2' 1 hereby certify on this plat w actual surveys supervision ar correct to th Nover Date of Surve Signature & S Signature & S W.O	527.2' 527.2' actual surveys made by me or supervison and that the same is correct to the best of my bela November 21::.200 Date of Survey Will Multiply " Signature & Sein of Forestone (12185)

	Form 3160-5	UNITED STATES	· ,	- , ·	·	FC	ORM APPROVED	,
BUREAU OF LAND MANAGEMENT SUBMIT IN TRIFUCATE Do not use this form for proposals to drift or to re-enter an abandonad well. Use Form 316b-3 (APD) for such proposals. SUBMIT IN TRIFUCATE – Other instructions on page 2 Type of Well Gas We	(1 JO007) / (* *			
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill or to re-entor an abandonder well. Uses Form 3160-3 (APD) for such proposals. If Index, Albuste et Inte Name SUBMIT IN TRIFLICATE - Other induvicions on page 2 If Ultimor, Albuste et Inte Name 1 Type of Well Gas Well Other > All of Unit Gas Well Other > All of Unit Gas Well Other > All of Order 9 All Well No Statistics The Product Statistics In Print No. (include area code) In Collary of Parals, State Laccibility of Well Product States and well The states of Descriptionary In Print No. (include area code) 12 CILICAT THE APPROPRIATE BOX(ES) TO NDIACATE NATURE OF NOTICE, REPORT ON OTHER DATA TYPE OF SUBMASSION TYPE OF SUBMASSION 12 CILICAT THE APPROPRIATE BOX(ES) TO NDIACATE NATURE OF NOTICE, REPORT ON OTHER DATA Well State(J) Well State(J) 13 cilication of Company Description Production (instributing) Weal State(J) 14 brace of Instr Other Production (instributing) Weal State(J) 14 brace of Instr Other Production (instributing) Weal State(J) 15 brace of Instr Other Production (instributing) Weal State(J) 14 bra					, * . [*]		piles July 31, 2010	
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Final Abandoment Notice Convert to Injection Plug and Abandon Plug and Abandon Water Disposal Convert to Injection Plug Base Water Disposal Water Disposal Source Clearly state all performed or provide the Data No. on file with BLMPAR. Required subsequent reports markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLMPAR. Required subsequent reports must be filed which No days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 31604 must be filed which No days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 31604 must be filed which No days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 31604 must be filed which No days following completion of the involved operation. So the wast be filed which No days following completion or recompletions for SEMU and Warren Units, Lea County NM, dated May 7, 2000 which changes Section 7 Waster Handling from the use of Reserve Pits on location to a fully closed loop system. Please see the attached document for furth fetals. Received AuG 2 8 2009 AuG 2 8 2009 MOBBSOCD HobBESOCD This SPACE FOR FEDERAL OR STATE OFFICE USE superveed by // Interview Date	Subsequent Report	Casing Repair		New Construction	Reco	mplete	Other	
A Increduction of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed within 30 days following completion of the involved operation horizon the beside only after all requirements, including reclamation, have been completed. The operation has determined that the site is ready for final inspection.) ConcocPhillips respectfully submits a revision to the Master Surface Use Plen of Operations for SEMU and Warren Units, Lea County NM, dated May 7, 2000 which changes Section 7 Waste Handling from the use of Reserve Pits on location to a fully closed loop system. Please see the attached document for further fetals. A I hereby certify that the foregoing is true and correct. Name (Printed/Typed) August C. Fridms Mustin C. Fridms Tute Regulatory Specialist Signature Date 04/01/2009 This SPACE FOR FEDERAL OR STATE OFFICE USE Proved by /s/ Don Peterson Inte Calls BaD Field DorFiCE Ordice of approval, frav, are attached Approval of this notice does not warrant or corrity and willfuly to make to any department or seercy of the Unated S		Change Plans		Plug and Abandon	Tem	oorarily Abandon		
the proposal is to depend irrectionally or recomplete horizontally, give subsuffac locations and measured and true vertical depths of all pertunent markers and zones. Attach the boold under which the work will be performed or provide the Bond No. on file with BLMBIA. Required Subsequent reports must be file donese testing has been completed. Final Abandomment Notices must be file only after all requirements, including reclamation, have been completed and the operation is a multiple completion or recompleted must be file donese testing has been completed. Final Abandomment Notices must be file only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.) ConcooPhillips respectfully submits a revision to the Master Surface Use Plan of Operations for SEMU and Warren Units, Lea County NM, dated May 7, 2000 which changes Section 7 Waste Handling from the use of Reserve Pits on location to a fully closed loop system. Please side the attached document for further tetals. RECEIVED AUG 2 8 2009 HOBBSOCD 4. Thereby certify that the foregoing is true and correct Name (<i>PrintedTyped</i>) Use 04/01/2009 This SPACE FOR FEDERAL OR STATE OFFICE USE	Final Abandonment Notice	Convert to Injection		Plug Back	Wate	r Disposal	······································	
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	PARTMENT OF THE IN REAU OF LAND MANA				E 5 Lease Serial No	xpires J	uly 31, 2010		
	· · ·	•			Warren Unit	,			
	NOTICES AND REPOR form for proposals to			, 1	6 If Indian, Allottee of	or Tribe	Name	•	
abandoned well.	Use Form 3160-3 (AP	D) for s	uch proposal	ls.				,	
	IT IN TRIPLICATE – Other in	structions	on page 2	,	7 If Unit of CA/Agre	ement, l	Name and/or N	, 10	
I. Type of Well Gas V	Well Other				8. Well Name and No	1			
2 Name of Operator ConocoPhillips Company	<u> </u>			۱	9. API Well No.				
Ba Address P.O Box 51810	·	Phone N 32-688-69	No <i>(include area co</i>	ode) .	10 Field and Pool or Warren Unit	Explora	tory Area		
Midland, Texas 79710-1810 4. Location of Well (Footage, Sec., T.		32-000-0:			11. Country or Parish	, State			
Varren Unit					Lea, NM				
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Subsequent Report	Casing Repair		ew Construction	=	omplete		Other		
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MASTER SURFACE USE PLAN OF OPERATIONS

CONOCOPHILLIPS COMPANY SEMU AND WARREN UNITS, LEA COUNTY, NM May 7, 2008

This plan is to be submitted with BLM Form 3160-3, Application for Permit to Drill. The purpose of this plan is to describe the location of the proposed wells, the proposed construction activities and operations plan, the magnitude of necessary surface disturbance involved and the procedures to be followed in rehabilitating the surface after completion of the operations. This plan will allow a complete appraisal to be made of the environmental effects associated with the proposed operation.

ConocoPhillips requests that each 3160-3 serve as the application for Right-of-Way for the access, well pad, flow lines, power lines, and water hauling routes on Federal lands.

<u>UNIT AREA</u>: Leases in the following Sections, Townships and Ranges that ConocoPhillips Company operates. Lease numbers as follows, but not limited to:

	Southea	nst Monu	ument Unit	· .			x.	
	Lease	Suffix	Lessor	Township	Range	Section	QQ .	
	155692	000	NM 557686	20	37	13	S2SW	
	155692	000	NM 557686	20	37	13	SE	
	265155	000	NMNM 90161	20	. 37	13	NWSW	
	265155	000	NMNM 90161	20	37	13	SWNE	
	155692	000	NM 557686	20	37	14	NWNE	
,	155692	000	NM 557686	20	37	14	S2NE	
•	155692	000	NM 557686	20	37	14	SE	
	155692	. 000	NM 557686	20	37	14	W2	
	017994	000	LC 031621B	20	37	15	E2E2	
	155692	000	NM 557686	. 20	37	22	E2NE	
•	271248		NM 557686	20	37 -	22	E2SE	
	155692	000	NM 557686	20	37	23	All	-
•	155692	000	NM 557686	20	37	24	N2N2	
	020643		LC 031620A	20	37	24	S2	
	020643		LC 031620A	20	37	24	S2N2	
	018625	000	LC 031696A	20	37	25	N2S2	
, ,	018625	000	LC 031696A	20	37	25	S2NE	
ć	018625		LC 031696A	. 20	37	25	S2NW	۰
Ì.		000	LC 031620A	20	37	25	N2N2	
•	018625	000	LC 031696A	20	37	26 .	RE ,	
	018625	000	LC 031696A	20	37	26	N2SE	
	018625	000	LC 031696A	20	37	26	SESE	
, . ,	[155818] _.		NMNM 002511	20	37	26	SWSE	
	155818		NMNM 002511	20	37	26	W2	
	155818	000	NMNM 002511	20	37	27	E2E2	
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Warren U	Init		,	-	
Lease	Suffix	Township	Range	Section	QQ
018642	000 LC 031670	B 20	38	20	SE
018642	000 LC 031670	B 20	38	21	SW
018642	000 LC 031670	B 20	- 38	21	W2SE
032310	000 LC 061983	20	38	21	E2SE
018642	.000 LC 031670	B 20	[°] 38	22	S2S2
006710	000 LC 063458	20	38	25	W2
006710	000 LC 063458	20	38	26	ALL
018642	000 LC 031670	B 20	38	27	N2N2
019406	000 LC 031695	B 20	38	27	S2
019406	000 LC 031695	B 20	38	27	S2N2
018642	000 LC 031670	B 20	38	28	N2N2
019406	000 LC 031695	B 20	38	28	S2
019406	000 LC 031695	B 20	38 -	28	S2N2
018642	000 LC 031670	B 20	38	29	N2NE
019405	000 LC 031695	A 20	38	29	W2SW
019406	000 LC 031695	B 20	38	29	E2SW
019406	000 LC 031695	B 20	38	29	S2NE
019406	.000 LC 031695	B 20	38	29	SE
019406	000 LC 031695	B 20 2 .	38	33	ALL
006710	000 LC 063458	20	38	34	ALL
006710	000 LC 063458	20	38	35	ALL

If drilling is proposed on additional leases, the BLM will be advised when they are proposed.

1. Existing Roads:

- **A.** The well site and elevation plat for each well will be provided with the 3160-3 when proposed.
- **B.** All roads to the location are shown with each individual location plat. The existing roads are illustrated and are adequate for travel during drilling and production operations. Upgrading of the roads prior to drilling will be done where necessary, or as determined during the Onsite inspections.
- **C.** Directions to location will be provided for each well application.
- **D.** Routine grading and maintenance of existing roads will be conducted as necessary to maintain their condition as long as any operations continue on the lease.

2. <u>New or Reconstructed Access Roads:</u>

- A. The maximum width of the road will be fifteen (15) feet.
- **B.** It will be crowned and made of 6 inches of rolled and compacted caliche. Water will be diverted, 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.
- **D.** The average grade will be approximately 1%.
- E. No cattle guards, grates, or fence cuts will be required.
- F. No turnouts are planned.

3. Location of Existing Wells:

See 1-mile radius plat for each well with Form 3160-3 when proposed.

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

A. On Well Pad

- 1. Oil Producing Wells: It is the intent to connect a 2-7/8" steel flow line or 3" fiber re-enforced polyethylene lines, above ground, from the well to an existing production infrastructure. The flow lines will be laid along lease roads from well to facility. All necessary approvals from surface owners and/or governmental agencies will be obtained prior to construction.
- 2. Any new facility or expansion of existing facilities will obtain all necessary approvals from surface owners and/or governmental agencies prior to construction.
- 3. Any temporary production facilities will be on-site or at existing facilities.
- All above ground facilities will be painted per Carlsbad BLM office area guidelines, a color that blends with the surrounding area within six (6) months of well completion, unless approved otherwise.
- **5. Water Injection Wells:** Prior to injection, a line of either 2-3/8",2-7/8", or 3-1/2" 2500# fiberglass tubing will be installed for the purpose of transporting water from the main water injection line to the individual wells. All necessary approvals from surface owners and/or governmental agencies will be obtained prior to construction.
- **B.** The planned facility diagram will be submitted with each Form 3160-3.
- **C.** New power lines will be either primary 12,470 volt 3-phase or 480 volt 3-phase power for each unit. All existing power lines are Company-owned lines.

5. Location & Types of Water Supply:

- A. Some fresh water, for the surface section of the wells, may be recycled from the fresh water pit from the drilling of the previous well and, perhaps, combined or diluted with new fresh water, as necessary. Otherwise, new fresh water may be obtained from a licensed supply source.
- B. No water wells will be drilled at these locations.

6. Construction Materials:

Road and location construction materials will be obtained from the landowner in most cases. Otherwise, the construction materials will be obtained from a permitted source.

7. Methods For Handling Waste:

A. A closed loop zero discharge system will be utilized by ConocoPhillips. The drilling waste materials may include:

- Drill cuttings
- Excess drilling fluids, including fresh water, fresh water mud, brine, and brine based mud
- Any water that might flow from the well due to possible water flows that may be encountered during drilling operations
- Excess cement (cement returns) from cementing operations

A closed loop zero discharge system well be used, no reserve pit will be built on location. The rig's steel pits along with cuttings boxes and frac tanks will be used for containments.

After drilling operations are concluded, any remaining free water (either brine water or fresh water) will be hauled to an approved disposal facility, or if in suitable condition, may be reused on the next well. In the use of a zero discharge system, the drill cuttings and cement returns circulated to surface will be hauled to an approved disposal facility.

The portion of the drilling pad to be used by the production equipment (pumping unit) will remain in use and will not be reclaimed.

B. A portable chemical toilet will be available on the location for human waste during the drilling operations.

C. Garbage, trash and waste paper produced during drilling operations will be collected in a contained trailer and disposed of at an approved landfill within 30 days after the well has been either completed or abandoned. All such waste material will be contained to prevent scattering by the wind.

D. In the event water is produced from a well during completion operations; the water will be disposed of into a steel tank. After placing the well on production through the production facilities; all water will be collected in tanks and injected into the water injection system. Produced oil will be separated into steel stock tanks until sold.

E. No toxic waste or hazardous chemicals will be generated by this operation.

8. Ancillary Facilities:

No ancillary facilities are planned.

9. Well Site Layout:

The drill pad layout will be included for each individual well on separate Forms 3160-3.

10. Plans for Surface Reclamation:

A. If a well is a producer, all site rehabilitation shall be completed as required. The unused portion of the site will be ripped prior to replacing the topsoil. The soil-banked material will be spread over the area. Reseeding will be utilizing a BLM-approved mixture. The prepared seed shall be broadcast or drill seeded with the approved seed mixture, as required by the soil and/or wildlife needs. If the broadcast method is utilized, the seed mixture shall be doubled. There shall be no primary or secondary noxious weed seed in the native seed mixture.

- B. At such time the well location is abandoned, ConocoPhillips Company will contact the BLM for development of the final rehabilitation plan. Upon abandonment, a dry hole marker welded to the surface casing four feet below ground level. It will contain the same information as the well sign as directed by 43 CFR 3162.6 (30 CFR 221.22). The dry hole marker sealing the casing will have a 1/8" to 1/4" weep hole which will allow pressure to dissipate and make detection of any fluid seepage easier.
- **C.** Weeds will be controlled on disturbed areas within the exterior limits of the well pad. The control methods will be in accordance with guidelines established by EPA, BLM, state and local authorities.

11. Surface Ownership:

The surface ownership for most of these wells will be private surface and federal minerals with the exception of a few that will be on federal surface.

Private surface owners will be identified on separate Forms 3160-3. Additionally, those surface owners will be provided a copy of the respective Surface Use Plan.

12. Other Information:

- A. The area that would be impacted by the well site and access road has been, or will be, surveyed for cultural resources.
- **B.** ConocoPhillips will be responsible for informing all persons in the area who are associated with this project that they will be subject to prosecution for knowingly disturbing historic or archaeological sites or for collecting artifacts.

If historic or archaeological materials are uncovered; ConocoPhillips Company will suspend all operations that might further disturb such materials and immediately contact the Authorized Officer, Bureau of Land Management.

Within five (5) working days the Authorized Officer will inform ConocoPhillips Company as to whether the materials appear eligible for the National Register of Historic Places; the mitigation measures the Operator will likely have to undertake before the site can be used (assuming in site preservation is not necessary); and time frame for the Authorized officer to complete an expedited review under 36 CFR 800.11 for confirm, through the State Historic Preservation Officer, that the findings of the Authorized Officer are correct and that mitigation is appropriate.

- C. ConocoPhillips Company will protect, in place, all public land survey monuments, private property corner, and Forest Service boundary markers. In the event that any such land markers or monuments are destroyed in the exercise of their rights, depending on the type of monument destroyed, the Operator shall see that they are reestablished or referenced in accordance with (1) the procedures outlined in the "Manual of Instructions for the Survey of the Public Land of the United States", (2) the specifications of the county surveyor, or (3) the specifications of the BLM.
- **D.** A cultural resource survey will be performed by Lone Mountain Archaeological Services, Inc. and forwarded to the Carlsbad, NM BLM office.

13. Lessee's and Operator's Representatives:

The ConocoPhillips Company representatives responsible for assuring compliance of the Surface Use Plan include:

Greg Ashdown Manager, Permian Operations 1410 NW County Rd. Hobbs, NM 88240 Office: 432-368-1100/Cell: 575-390-1710

Eileen D. Dey Regulatory Manager 3300 N. "A" St., Bldg. 6 Midland, TX 79705 Office: 432-688-9042/Cell: 432-889-8161

Tommy E. Brooks SENM Production Superintendent 1410 NW County Rd. Hobbs, NM 88240 Office/Cell: 575-390-3275

C. John Coy Production Supervisor 1410 NW CR Hobbs, NM 88240 Office: 575-391-3127/Cell: 575-390-6247

Larry E. Deen Projects Supervisor HC 60 Box 66 Lovington, NM 88260 Office: 575-391-3186/Cell: 575-390-3421

Vernon Mackey Production Foreman 1410 NW CR Hobbs, NM 88240 Office: 575-391-3129/Cell: 575-390-3411

Justin C. Firkins Regulatory Specialist 3300 N. "A" St., Bldg. 6 Midland, TX 79705 Office: 432-688-6913/Cell: 432-599-2751



ConocoPhillips

ConocoPhillips Company PTRRC Ronald G. Crouch PTRRC Advisor 4001 Penbrook St., Ste. 345 Odessa TX, 79762 Phone (432) 368-1218 Cell (432) 631-5557

January 27, 2009

Cody Layton Bureau of Land Management 620 East Greene Carlsbad New Mexico 88220

Re: Warren Unit 334 Section 34, T20S-R38E Lea County, New Mexico

> Warren Unit 337 Section 34, T20S-R38E Lea County, New Mexico

Warren Unit 344 Section 27, T20S-R38E Lea County, New Mexico Warren Unit 335 Section 34, T20S-R38E Lea County, New Mexico

Warren Unit 338 Section 34, T20S-R38E Lea County, New Mexico

Warren Unit 345 Section 27, T20S-R38E Lea County, New Mexico Warren Unit 336 Section 34, T20S-R38E Lea County, New Mexico

Warren Unit 343 Section 26, T20S-R38E Lea County, New Mexico

Dear Cody:

Settlement has been reached between the surface owner and ConocoPhillips Company for the above mentioned well location and appurtenances. The surface owner is:

Robert McCasland P.O. Box 206 Eunice, NM 88231

If you have any questions, please contact me.

Sincerely, M

Ronald Crouch PTRRC Advisor ConocoPhillips Company





HOBBS SW







HOBBS SW

COMPANY MIDLAND TEXAS, 79701 (432) 687-0865 - (432) 687-0868 FAX

VICINITY MAP



 SEC. 34 TWP. 20-S RGE. 38-E

 SURVEY
 N.M.P.M.

 COUNTY
 LEA

 DESCRIPTION
 10' FNL & 1310' FWL

 ELEVATION
 3530'

OPERATOR CONOCOPHILLIPS

LEASE WARREN UNIT



Warren 335

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Formation Tops and Planned Total Depth					
Formation Call Points	Top (ft MD)				
Rustler	1456				
Salado	1549				
Yates	2738				
Blinebry	5661				
Tubb	6346				
Abo	6920				
Total Depth (minimum)	7075				
Total Depth (maximum)	7120				

String	Minimum Depth	Maximum Depth			
Surface Casing	150				
Production Casing	7065	7110			

Note: The Surface Casing and the Production Casing programs reflect an uncertainty of 45' in the setting depth for the shoe because that is the approximate length of a full joint of Range 3 casing. This range for the setting depth will allow us to drill the hole to fit the casing string based on how the tally comes out and will provide for the cementing head to be positioned at the rig floor for safety and efficiency in cementing operations. The casing will be set approximately 10 ft off bottom.

Master Drilling Plan ConocoPhillips Company <u>SEMU and Warren Unit</u> July 17, 2008

Lea County, New Mexico Pool: Blinebry, Tubb, Drinkard

<u>UNIT AREA</u>: Leases in the following Sections, Townships and Ranges that ConocoPhillips Company operates. Lease numbers as follows, but not limited to:

Southeas	st Monum	ent Unit				
Lease	Suffix	Lessor	Township	Range	Section	QQ
155692	000	NM 557686	20	37	13	S2SW
155692	000	NM 557686	20	37	13	SE
265155	000	NMNM 90161	20	37	13	NWSW
265155	000	NMNM 90161	20	37	13	SWNE
155692	000	NM 557686	20	37	14	NWNE
155692	000	NM 557686	20	37	14	S2NE
155692	000	NM 557686	20	37	14	SE
155692	000	NM 557686	20	37	14	W2
017994	000	LC 031621B	20	37	15	E2E2
155692	000	NM 557686	20	37	22	E2NE
271248	000	NM 557686	20	37	22	E2SE
155692	000	NM 557686	20	37	23	All
155692	000	NM 557686	20	37	24	N2N2
020643	000	LC 031620A	20	37	24	S2
020643	000	LC 031620A	20	37	24	S2N2
018625	000	LC 031696A	20	37	25	N2S2
018625	000	LC 031696A	20	37	25	S2NE
018625	000	LC 031696A	20	37	25	S2NW
020643	000	LC 031620A	20	37	25	N2N2
018625	000	LC 031696A	20	37	26	NE
018625	000	LC 031696A	20	37	26	N2SE
018625	000	LC 031696A	20	37	26	SESE
155818	000	NMNM 002511	20	37	26	SWSE
155818	000	NMNM 002511	20	37	26	W2
155818	000	NMNM 002511	20	37	27	E2E2

Warren Unit

Lease	Suffi	x	Township	Range	Section	QQ
018642	000	LC 031670B	20	38	20	SE
018642	000	LC 031670B	20	38	21	SW
018642	000	LC 031670B	20	38	21	W2SE

Master Drilling Plan - SEMU and Warren Unit (Date: July 17, 2008)

Page 1 of 16

032310	000	LC 061983	20	38	21	E2SE
018642	000	LC 031670B	20	38	22	S2S2
006710	000	LC 063458	20	38	25	W2
006710	000	LC 063458	20	38	26	ALL
018642	000	LC 031670B	20	38	27	N2N2
019406	000	LC 031695B	20	38	27	S2
019406	000	LC 031695B	20	38	27	S2N2
018642	000	LC 031670B	20	38	28	N2N2
019406	000	LC 031695B	20	38	28	S2
019406	000	LC 031695B	20	38	28	S2N2
018642	000	LC 031670B	20	38	29	N2NE
019405	000	LC 031695A	20	38	29	W2SW
019406	000	LC 031695B	20	38	29	E2SW
019406	000	LC 031695B	20	38	29	S2NE
019406	000	LC 031695B	20	38	29	SE
019406	000	LC 031695B	20	38	33	ALL
006710	000	LC 063458	20	38	34	ALL
006710	000	LC 063458	20	38	35	ALL

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If drilling is proposed on additional leases, the BLM will be advised when they are proposed.

1. Geologic Name of Surface Formation:

Quaternary

2. Estimated tops of geological markers and estimated depths to water, oil, or gas formations:

In SEMU and Warren Unit, the estimated tops of the geological markers and proposed Total Depth (TD) vary within a range of as much as 590'. The range of minimum to maximum depth for these markers and proposed TD range is presented in the table below. The datum for these depths is RKB (which is 10' - 12' above Ground Level).

Formation Call		tion Top MD	Pp Thickness		Contents
	Minimum	Maximum	Min	Max	
Above top of Rustler					Fresh Water
Rustler	1210	1620	84	140	
Salado	1295	1740	1115	1350	
Artesia Group	2530	2745	1400	1500	Gas and Oil
Yeso Group	5275	5690	1300	1700	Oil and Salt Water
Proposed TD	6910	7500			

Note: For each individual well we will include with the APD package our correlation pick depths for the formation tops and proposed TD for that individual well.

Protection of fresh water will be accomplished by setting the surface casing 25' - 70' into the Rustler Anhydrite formation and **cementing** the surface casing from the casing shoe **to the surface of ground** in accordance with the provisions of Onshore Oil and Gas Order No. 2 and New Mexico Oil Conservation Division Title 19.

3. Proposed casing program:

	Hole Size	N	Interval MD RKB (ft)	OD	Wt	Gr	Conn	Condition	Calcula	Safety Fa ted per BLM	ctors Load Formulas
Туре	(in)	From	То	(inches)	(lb/ft)				Burst	Collapse	Tension Dry/Buoyant
Cond	17-1/2"	0	40' – 85' (30' – 75' BGL)	13-3/8"	48#	H-40	STC	New	NA	NA	NA
Surf	12-1/4"	0	1235'– 1690'	8-5/8"	24#	J-55	STC	New	4.03	1.83	6.02 / 6.91
Prod	7-7/8"	0	6910' – 7500'	5-1/2"	17#	L-80	LTC	New	1.98	1.61	2.65 / 3.13

We propose to set the surface and production casing approximately 10' off bottom and to drill the hole to fit the casing string so that the cementing head is positioned at the floor for the cement job.

Casing Design (Safety) Factors – BLM Criteria:

Joint Strength Design (Safety) Factor: SFt SFt = Fj / Wt;

Where

- Fj is the rated pipe Joint Strength in pounds (lbs)
 - Wt is the weight of the casing string in pounds (lbs)

The Minimum Acceptable Joint Strength Design (Safety) Factor SFT = 1.6 dry or 1.8 bouyant

Collapse Design (Safety) Factor: SFc

 $SFc = Pc / (MW \times .052 \times Ls)$

Where

- Pc is the rated pipe Collapse Pressure in pounds per square inch (psi)
- MW is mud weight in pounds per gallon (ppg)
- Ls is the length of the string in feet (ft)

The Minimum Acceptable Collapse Design (Safety) Factor SFc = 1.125

Burst Design (Safety) Factor: SFb

SFb = Pi / BHP

Where

• Pi is the rated pipe Burst (Minimum Internal Yield) Pressure in pounds per square inch (psi)

BHP is bottom hole pressure in pounds per square inch (psi)

The Minimum Acceptable Burst Design (Safety) Factor SFb = 1.0

Joint Strength Design (Safety) Factors - BLM Criteria

Surface Casing:

• SFj Dry = 244,000 lbs / (1690 ft x 24 lb/ft) = 244,000 lbs / 40,560 lbs = 6.02 Dry

• SFj Bouyant = 244,000 lbs / (1690 ft x 24 lb/ft) [1-(8.5/65.5)= 244,000 lbs / 35,296 lbs = 6.91 Bouyant Production Casing:

- SFj Dry = 338,000 lbs / (7500 ft x 17 lb/ft) = 338,000 lbs / 127,500 lbs = 2.65 Dry
- SFi Bouvant = 338,000 lbs / (7500 ft x 17 lb/ft) [1-(10.0/65.5)= 338,000 lbs / 108,034 lbs = 3.13 Bouvant

Collapse Design (Safety) Factors - BLM Criteria

Surface Casing: SFc = 1370 psi / (8.5 ppg x .052 x 1690 ft) = 1370 psi / 747 psi = 1.83 Production Casing: SFc = 6290 psi / (10 ppg x .052 x 7500 ft) = 6290 psi / 3900 psi = 1.61

Burst Design (Safety) Factors – BLM Criteria

Surface Casing:

SFb = 2950 psi / (8.33 ppg x .052 x 1690 ft) = 2950 psi / 732 psi = 4.03 Production Casing:

SFb = 7740 psi / (5.13 ppg x .052 x 7500 ft) = 7740 psi / 2400 psi = 3.23 based on reservoir pressure data SFb = 7740 psi / (10 ppg x .052 x 7500 ft) = 7740 psi / 3900 psi = 1.98 based on brine density used to drill to TD

Casing Design (Safety) Factors – Additional ConocoPhillips Criteria:

ConocoPhillips casing design policy establishes Corporate Minimum Design Factors (see table below) and requires that service life load cases be considered and provided for in the casing design.

ConocoPhillips Corpo	rate Criteria for	Minimum De	esign Factors
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	Burst	Collapse	Axial
Casing Design Factors	1.15	1.05	1.4

Surface Casing:

The maximum internal (burst) load on the Surface Casing occurs when the surface casing is tested to 1500 psi. We will pressure up to 1600 psi and let the pressure settle for 1 minute after shutting down the pump. Then we will begin the 30 minute test period. Therefore the maximum pressure that the surface casing will be exposed to will be 1600 psi.

Surface Casing Burst Design Factor

DF Burst = Burst Rating / Maximum Pressure During Casing Pressure Test = 2950 psi / 1600 psi = 1.84

The maximum collapse load on the Surface Casing occurs when we release the pressure after bumping the plug on the surface casing cement job.

Surface Casing Collapse Design Factor DF Collapse = Collapse Rating / (Cement Column Hydrostatic Pressure – Displacement Fluid Hydrostatic Pressure) DF Collapse = 1370 psi / {[(300 ft x .052 x 14.8 ppg) + (1390 ft x .052 x 13.5 ppg)] – (1690 ft x .052 x 8.33 ppg)} DF Collapse = 1370 psi / 475 psi DF Collapse = 2.88

The maximum axial load on the Surface Casing would be the buoyant weight of the full string of casing plus an allowance for potential overpull in the amount of 100,000 lbs.

Surface Casing Axial (Tension) Design Factor DF Tension = Joint Strength Rating / (Bouyant Weight + Overpull Margin) Bouyancy Factor for fresh water (8.34 ppg fluid) = 1 – (8.34 / 65.5) = .873 Overpull Margin is selected to be 100,000 lbs DF Tension = 244,000 lbs / [(1690 ft x 24 lb/ft x .873) + 100,0000 lbs] DF Tension = 244,000 lbs / 135,408 lbs DF Tension = 1.80

Master Drilling Plan – SEMU and Warren Unit (Date: July 17, 2008)

Production Casing:

The maximum internal (burst) load would occur either during during fracture initiation or screen out. Fracture initiation occurs with 2% KCL water in the hole and a maximum of 5000 psi surface pressure. Screen out might occur with up to 12 ppg frac fluid in the hole.

For the fracture initiation load case, the design factor calculated at surface is: DF Burst @ Surface for Fracture Initiation = Burst Rating / Maximum Applied Surface Pressure DF Burst @ Surface for Fracture Initiation = 7740 psi / 5000 psi DF Burst @ Surface for Fracture Initiation = 1.54

For the fracture initiation load case, the design factor calculated at TD is:

DF Burst @ TD for Fracture Initiation = Burst Rating / (Internal Pressure – Pore Pressure) Internal Pressure at TD = Surface Pressure + Hydrostatic Pressure at TD of 2% KCL Water Column Hydrostatic Pressure at TD of 2% KCL Water Column = 7500 ft x .052 x 8.6 ppg = 3354 psi Surface Pressure at the time of Fracture Initiation = 5000 psi maximum Internal Pressure at TD = 5000 psi + 3354 psi = 8354 psi Pore Pressure in the Reservoir = 2000 psi approximately
DF Burst @ TD for Fracture Initiation = 7740 psi / (8354 psi - 2000 psi)
DF Burst @ TD for Fracture Initiation = 1.22
For the screen out load case, the maximum burst loading occurs at TD and is calculated as follows: DF Burst @ TD for Screen Out = Burst Rating / (Internal Pressure – Pore Pressure)

DF Buist @ TD for Screen Out = Buist Rating / (internal Pressure = Pole Pressure)
 Internal Pressure at TD = Surface Pressure + Hydrostatic Pressure at TD of 12 ppg frac fluid
 Hydrostatic Pressure at TD of 12 ppg frac fluid = 7500 ft x .052 x 12.0 ppg = 4680 psi
 Maximum Allowable Surface Pressure at the time of Screen Out = 4050 psi maximum
 Internal Pressure at TD at time of Screen Out = 4050 psi + 4680 psi = 8730 psi
 Pore Pressure in the Reservoir = 2400 psi approximately
 DF Burst @ TD for Fracture Initiation = 7740 psi / (8730 psi - 2400 psi)

DF Burst @ TD for Fracture Initiation = 7740 psi / 6730 psi

DF Burst @ TD for Fracture Initiation = 1.15

The maximum collapse load on the production casing occurs with the well pumped off on production. The maximum potential pore pressure in the well would be equal to or less 10 ppg which is the density of the brine drilling fluid used in drilling production hole interval from the Surface Casing Shoe to TD.

DF Collapse = Collapse Rating / Maximum Possible Pore Pressure DF Collapse = 6290 / (10 ppg x .052 x 7500 ft) = 6290 psi / 3900 psi = 1.61

Production Casing Axial (Tension) Design Factor DF Tension = Joint Strength Rating / (Bouyant Weight + Overpull Margin) Bouyancy Factor for 10 ppg brine = 1 - (10.0 / 65.5) = .847 Overpull Margin is selected to be 100,000 lbs DF Tension = 338,000 lbs / [(7500 ft x 17 lb/ft x .847) + 100,0000 lbs] DF Tension = 338,000 lbs / (107,993 lbs + 100,000 lbs) DF Tension = 338,000 lbs / 207,993 lbs

DF Tension = 1.63

Master Drilling Plan - SEMU and Warren Unit (Date: July 17, 2008)

4. Proposed cementing program:

13-3/8" Conductor:

Cement to surface with rat hole mix, ready mix or Class C Neat cement.

(Note: The gravel used in the cement is not to exceed 3/8" dia)

TOC at surface.

8-5/8" Surface Casing:

The intention for the cementing program for the Surface Casing is to:

- Place the Tail Slurry from the casing shoe to 300' above the casing shoe,
- Bring the Lead Slurry to surface.

Spacer: 20 bbls Fresh Water

Lead Slurry						1		
Volume (sx) & Recipe & Excess %	Top (ft MD)	Bottom (ft MD)	Length (ft)	Density (ppg)	Yield (cuft/sx)	Mix Wtr gal/sx	•	ve Strengths y UCA Method
433 sx - 644 sx Class C + 4% bentonite + 2% CaCl2 + 0.125% Polyflake	Surface	935' to 1390'	935' to 1390'	13.5	1.96	10.69	Time 6 hrs 12 hrs 24 hrs 48 hrs	Strength 320 psi 514 psi 589 psi 601 psi
Excess = 120%								l

Tail Slurry								
Volume (sx) & Recipe & Excess %	Top (ft MD)	Bottom (ft MD)	Length (ft)	Density (ppg)	Yield (cuft/sx)	Mix Wtr gal/sx		ve Strengths y UCA Method
200 sx Class C + 2% CaCl2 + 0.125% Polyflake Excess = 100%	935' to 1390'	1235' to 1690'	300' 350'	14.8	1.35	6.36	Time 3 hrs 9 hrs 12 hrs 24 hrs 48 hrs	Strength 50 psi 500 psi 793 psi 1266 psi 2183 psi

Displacement: Fresh Water

Note: In accordance with the Pecos District Conditions of Approval, we will Wait on Cement (WOC) for a period of not less than 18 hrs after placement or until at least 500 psi compressive strength has been reached in both the Lead Slurry and Tail Slurry cements on the Surface Casing, whichever is greater.

5-1/2" Production Casing Cementing Program:

The intention for the cementing program for the Production Casing is to:

- Place the Tail Slurry from the casing shoe to a point approximately 200' above the top of the Yeso group,
- Bring the Lead Slurry to surface.

Spacer: 20 bbls Fresh Water.

Volume (sx)	Top	Bottom	Length	Density	Yield	Mix Wtr	Compressive	
& Recipe & Excess %	(ft MD)	(ft MD)	(ft)	(ppg)	(cuft/sx)	gal/sx	@ 113 deg F by C	
683 – 1065 sx 50% Class C 50% POZ + 10% bentonite + 8 lb/sx Salt + 0.4% Fluid Loss Additive + 0.125%LCM if needed	Surface	5075' to 5490'	5075' to 5490'	11.8	2.51	14.64	Time 12 hrs 24 hrs 48 hrs 72 hrs 116 hrs	Strength 93psi 234 psi 382 psi 468 psi 584 psi

Tail Slurry								
Volume (sx) & Recipe & Excess %	Top (ft MD)	Bottom (ft MD)	Length (ft)	Density (ppg)	Yield (cuft/sx)	Mix Wtr gal/sx	Compressive @ 113 deg F by	•
304 – 520 sx 50% Class C 50% POZ + 2% Bentonite + 5% Salt + 0.4% Fluid Loss Additive + 0.4% Dispersant + LCM if needed	5075' to 5490'	6910' to 7500'	1835' to 2010'	14.2	1.32	6.20	Time 12 hrs 24 hrs 48 hrs 72 hrs	Strength 800 psi 1100 psi 1410 psi 1720 psi
Excess = 27% - 108% (based on caliper if available) (estimated average hole size = 8" - 9.26")								

Displacement: 2% KCL water with approximately 250 ppm gluteraldehyde biocide.

Proposal for Option to Adjust Production Casing Cement Volumes:

The production casing cement volumes presented above are estimates based on data from previous wells. We propose an option to adjust these volumes based on the caliper log data for each well if available. Also, if no caliper log is available for any particular well, we would propose an option to possibly increase the production casing cement volumes to account for any uncertainty in regard to the hole volume.

5. Pressure Control Equipment:

The blowout preventer equipment (BOP) will consist of 11", 2M equipment to conform to the requirements for a 2M System as described in Onshore Oil and Gas Order No. 2, III.A.2.a.ii. The blowout preventer equipment will be installed after running and cementing the surface casing and installing the wellhead and will be tested by a third party using a test plug. Ram type preventers and associated equipment will be tested to approved stack working pressure of 2000 psi. Annular type preventers, if used, will be tested to 50 percent of rated working pressure, and therefore will be tested to 1000 psi. The above tests will be performed:

- When initially installed
- Whenever any seal subject to test pressure is broken
- Following related repairs, and
- At 30 day intervals

Annular preventers, if used, will be functionally operated at least weekly.

Pipe and Blind rams shall be activated each trip, but not more than once per day.

All of the above described tests will be recorded in the drilling log.

A diagram of the proposed BOPs and choke manifold is attached.

6. Proposed Wellhead Program:

Casing Head: 8-5/8" Slip on and Weld x 11" 5M Casing Head installed on 8-5/8" surface casing Tubing Head: 11" 5M x 7-1/6" 5M Tubing Head installed after setting 5-1/2" production casing

7. Proposed Mud System

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The mud systems that are proposed for use are as follows:

DEPTH	TYPE	WEIGHT	VISCOSITY	WATERLOSS
0 – Surface Casing Point	Fresh Water Native Mud	8.5 – 9.0 ppg	28 – 40 sec	N.C.
Surface Casing Point to TD	Brine	10 ppg	29 sec	N.C.
Conversion to Mud at TD	Brine Based Mud	10 ppg	34 – 45 sec	5 – 10 cc/30 min

12-1/4" hole from surface of ground to surface casing point: The circulating media will be either a native mud or fresh water with high viscosity sweeps. The mud components will be:

- Fresh Water
- Bentonite (if needed)
- Lime
- Soda Ash
- Starch (if needed)
- Drilling Paper
- Other loss of circulation material if needed (nut plug or fiberous material)
- Soap sticks (if needed)

7-7/8" hole from the surface casing shoe to TD: The circulating media will be 10 ppg brine and will be converted to a mud with starch, attapulgite, and lime upon reaching Total Depth (TD). The mud components will be:

- Brine (approximately 10 lb/gal density)
- Attapulgite
- Lime
- Starch
- Drilling Paper
- Other loss of circulation material if needed (nut plug, fiberous material, gilsonite, or asphalt)
- Soap Sticks if needed
- Lease crude oil as a spotting fluid if needed in the event of differential sticking

8. Logging, Coring, and Testing Program:

- a. No drill stem tests will be done
- b. No mud logging is planned, but might possibly be done if it is determined that this data is needed;
- c. No whole cores are planned
- d. The open hole electrical logging program is planned to be as follows:
 - Total Depth to 2500': Resistivity, Density, and Gamma Ray.
 - Total Depth to Surface Casing Shoe: Caliper
 - Total Depth to 200' MD, Gamma Ray and Neutron
 - Formation pressure data (XPT) on electric line if needed (optional)
 - Rotary Sidewall Cores on electric line if needed (optional)
 - BHC Sonic if needed (optional)
 - Spectral Gamma Ray if needed (optional)

9. Abnormal Pressures and Temperatures:

- No abnormal pressures or temperatures are expected to be encountered.
 - Note: We do not anticipate water flows or CO₂ flows.
- The expected bottom hole temperature is 113 degrees F.
- The expected bottom hole pressure is 2400 psi. Maximum anticipated surface pressure (MASP) is:

MASP= BHP-(.22 X TVD) so MASP = 2403 - (.22 X 6467') = 980 psi

• The estimated H₂S concentrations in the Warren Unit and SEMU are presented in the table below for the various producing horizons in this area:

FORMATION / ZONE	H2S (PPM)	Gas Rate (MCFD)	ROE 100 PPM	ROE 500 PPM
Artesia Group	28000	20	70	32
Yeso Group	1559	210	50	22

ConocoPhillips will comply with the provisions of Oil and Gas Order # 6, Hydrogen Sulfide Operations and will provide H_2S monitoring equipment which will be rigged up, tested, and operational prior to drilling out from surface casing. All persons arriving on location will have H_2S certification & training that occurred within the last year. Each occurrence of H_2S gas at surface is to be noted on the daily reports and any occurrence of H_2S in excess of 100 ppm will be reported to the authorized officer as soon as possible but no later than the next business day per the provisions of Oil and Gas Order # 6, Hydrogen Sulfide Operations. Also, ConocoPhillips will provide an H_2S Contingency Plan (please see copy attached) and will keep this plan updated and posted at the wellsite during drilling operations.

10. Anticipated starting date and duration of operations:

Road and location construction will begin after the BLM and NMOCD have approved the APD and will take into account any closure stipulations that may be attached or specified in order to avoid operations in any closure period. Also, rig availability may impact our schedule. With consideration of these limiting factors, we would intend / plan to drill the wells in our proposed program SEMU and Warren Unit within two years after receiving approval of the APD.

Attachments:

1

- Attachment # 1 Proposed Casing and Cementing Program
- Attachment # 2...... Diagram of Choke Manifold Equipment (Excerpted 54 FR 39528, Sept 27, 1989)
- Attachment # 3...... BOP and Choke Manifold Schematic 2M System (Figure 3-1, Appendix G, from BLM)
- Attachment # 4...... BOP and Choke Manifold Schematic 2M System (Figure 3-1A, Appendix G, from BLM)

Contact Information:

Program prepared by: Jason Tilley, Drilling Engineer, ConocoPhillips Company Phone (832) 486-2919 Cell (281) 684-4720 Date: July 17, 2008

Master Drilling Plan – SEMU and Warren Unit (Date: July 17, 2008)



ConocoPhillips Location Schematic and Rig Layout for Closed Loop System H&P #306

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(PICTURE NOT TO SCALE)



Attachment # 2

SEMU and Warren

Attachment I. Diagrams of Choke Manifold Equipment



2M CHOKE MANIFOLD EQUIPMENT - CONFIGURATION OF CHOKES MAY VARY

Master Drilling Plan – SEMU and Warren Unit (Date: July 17, 2008)

Page 14 of 16




ConocoPhillips **Drilling Operations** H₂S Plan

ConocoPhillips, Inc. will comply with Onshore Order No. 2 and No. 6 for working in an H_2S environment or a potential H₂S environment.

I. Hydrogen Sulfide Training

All contractors and subcontractors employed by ConocoPhillips will receive or have received training from a qualified instructor within the last twelve months in the following areas prior to commencing drilling operations on this well.

- 1. The hazards and characteristics of hydrogen sulfide (H_2S).
- 2. Safety precautions.
- 3. Operations of safety equipment and life support systems.

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

- 1. The effect of H₂S on metal components in the system, especially where high tensile strength tubulars are to be used.
- 2. Corrective action and shutdown procedures when drilling or reworking a well, blowout prevention and well control procedures, if the nature of the work involves these items.
- 3. The contents and requirements of the contingency plan when such plan is required.
- II. H₂S Equipment and Systems
 - 1. Safety Equipment

The following minimum safety equipment will be on location:

- a. Wind direction indicators placed near rig floor/mud return lines and at points along the perimeter of the location to allow visibility of at least one indicator from any point on location.
- b. Automatic H₂S detection alarm equipment (both audio and visual).
- c. Clearly visible warning signs. Signs will use the words "POISON GAS" and "CAUTION" with a strong color contrast.
- d. Protective breathing equipment will be located in the doghouse and at briefing areas on location.
- 2. Well Control Systems
 - a. Blowout Prevention Equipment

Refer to master drilling plan.

b. Communication

The rig contractor will be required to have two-way communication capability. ConocoPhillips will have either, land-line, satellite phone, microwave phone, or mobile (cellular) telephone capabilities.

c. Mud Program

The mud program has been designed to minimize the volume of H_2S circulated to surface. Proper mud weight, safe drilling practices and the use of H_2S scavengers when appropriate will minimize hazards when penetrating H_2S bearing zones.

d. Drill stem tests

Any planned drill stem test will be cancelled if H_2S is detected prior to such test. In the event that H_2S is detected during testing, the test will be terminated immediately.

12

ConocoPhillips Emergency Contact Phone Numbers

ConocoPhillips		(281)293-3600
Drilling Superintendent	Cotton Hair	work (432)368-1302 cell (432)556-9116
Safety (WSER)	Tom Samarripa	work (432)368-1263 cell (432)556-9113
Drilling Engineer	Jason Tilley	work (832)486-2919 cell (281)684-4720
Regulatory Contact	Justin Firkins	work (432)688-6913 cell (432)599-2751
Emergency Numbers		
Hospital: Lea Co. Regional Medical Center(Hobbs)		(575)492-5000
Ambulance: Hobbs Fire Dept.		(575)397-9308
Air Ambulance: Care Star Aero Star		(888)624-3571 (800)627-2376
Fire Dept (Hobbs)		(575)397-9308
State Police:		
(Hobbs)	Emerg	(575)392-5580 (575)392-5588
Sheriff: (Hobbs)		(575) 396-3611
Police: (Hobbs)		(575)397-9265
NM OCD	Emerg	(575)393-6161 (575)370-7106
BLM	fax	(575)393-3612 (575)393-4280
New Mexico Emerg Response Comm(Santa Fe) 24HR		(505)476-9600 (505)827-9126
New Mexico State Emerg Ops Ctr		(505)476-9635
National Emerg Response Center (Washington, DC)		(800)424-8802

Recommended Telephone Procedures for Emergencies

1 State emergency situation

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2 Give your full name, company & phone number

3 Give cause of injury and condition of injured

4 Provide good directions to location or highway

5 Send vehicle to meet EMS at highway or landmark

6 Stay by phone until EMS arrives on location

PECOS DISTRICT CONDITIONS OF APPROVAL

	ConocoPhillips Company	
LEASE NO.:	LC-063458	
WELL NAME & NO.:	Warren Unit #335	
SURFACE HOLE FOOTAGE:	10' FNL & 1310' FWL	
BOTTOM HOLE FOOTAGE	Same	
LOCATION:	Section 34, T. 20 S., R 38 E., NMPM	
COUNTY:	Lea 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 Expirâtion
Archaeology, Paleontology, and Historical Sites
Noxious Weeds
Special Requirements
Lesser Prairie Chicken
⊠ Construction
Notification
Topsoil
Closed Loop System
Federal Mineral Material Pits
Well Pads
Roads
🔀 Road Section Diagram
Drilling
Onshore Order 6 – H2S requirements
Production (Post Drilling)
Well Structures & Facilities
Pipelines
Electric Lines
Closed Loop System/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)

Mitigation Measures: The mitigation measures include the Pecos District Conditions of Approval, the standard stipulation for the Lesser Prairie Chicken Timing Stipulations, the standard stipulation for surface flowlines, the standard stipulation for overhead electrical lines, and the standard stipulations for permanent resource roads.

Timing Limitation Stipulation/Condition of Approval for Lesser Prairie-Chicken: Oil and gas activities including 3-D geophysical exploration, and drilling will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities, geophysical exploration other than 3-D operations, and pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Additionally, no new drilling will be allowed within up to 200 meters of leks known at the time of permitting. Normal vehicle use on existing roads will not be restricted. Exhaust noise from pump jack engines must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 ft. from the source of the noise.

Warren Unit # 335: Closed Loop V-Door East

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) 234-5972 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 of the well pad. The topsoil shall not be used to backfill the reserve pit and will be used for interim and final reclamation.

C. Closed Loop System

Warren Unit # 335: Closed Loop V-Door East

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

If the operator elects to surface the access road and/or well pad, mineral materials extracted during construction of the reserve pit may be used for surfacing the well pad and access road and other facilities on the lease.

Payment shall be made to the BLM prior to removal of any additional federal mineral materials from any site other than the reserve pit. 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.

ON LEASE ACCESS ROADS

Road Width

F.

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 thirty (30) 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:



50'

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

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 a minimum of 4 hours in advance for a representative to witness:

- a. Spudding well
- b. Setting and/or Cementing of all casing strings
- c. BOPE tests

Lea County

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 393-3612

 A Hydrogen Sulfide (H2S) Drilling Plan should be activated 500 feet prior to drilling into the Yates formation. As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please 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.

3. The record of the drilling rate along with the CAL/GR/N well log run from TD to surface will be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. 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 and cement program require submitting a sundry and receiving approval prior to work. Failure to obtain approval prior to work will result in an Incident of Non-Compliance being issued.

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

Wait on cement (WOC) time 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. 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.

Possible lost circulation in the Glorieta formation.

1. The 8-5/8 inch surface casing shall be set at approximately 1525-1550 feet (a minimum of 25 feet into the Rustler Anhydrite and 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.

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 5-1/2 inch production casing is:

Cement to surface. If cement does not circulate, contact the appropriate BLM office.

3. 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. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **2000 (2M)** psi.

- 3. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. The tests shall be done by an independent service company.
 - b. The results of the test shall be reported to the appropriate BLM office.
 - c. 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.
 - d. 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.

D. DRILL STEM TEST

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

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VIII. PRODUCTION (POST DRILLING)

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 Shale Green, Munsell Soil Color Chart # 5Y 4/2

B. PIPÉLINES

BLM Serial Number: Company Reference: Well # & Name:

STANDARD STIPULATIONS FOR SURFACE INSTALLED PIPELINES

A copy of the 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, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et seq.) 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:

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.

a.

b.

c.

(4) Vandalism and sabotage.

Acts of God.

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 <u>25</u> 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 <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 hehalf, 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.

(March 1989)

C. ELECTRIC LINES

BLM Serial Number: Company Reference: Well No. & Name:

STANDARD STIPULATIONS FOR OVERHEAD ELECTRIC DISTRIBUTION LINES

A copy of the 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, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et seq.) 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. Powerlines shall be constructed in accordance to standards outlined in "Suggested Practices for Raptor Protection on Powerlines, " 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:

• For reclamation remove poles, lines, transformer, etc. and dispose of properly.

• Fill in any holes from the poles removed.

See attached reclamation plans.

IX. INTERIM RECLAMATION & RESERVE PIT CLOSURE

A. INTERIM RECLAMATION

If the well is a producer, interim reclamation shall be conducted on the well site in accordance with the orders of the Authorized Officer. The operator shall submit a Sundry Notices and Reports on Wells (Notice of Intent), Form 3160-5, prior to conducting 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.

The operators should work with BLM surface management specialists to devise the best strategies to reduce the size of the location. Any reductions 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 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.

BLM Serial #: Company Reference: Well Name and Number:

Seed Mixture for LPC Sand/Shinnery 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:

<u>Species</u> <u>Plains Bristlegrass</u> Sand Bluestem Little Bluestem Big Bluestem Plains Coreopsis

**Four-winged Saltbush

Sand Dropseed

5lbs/A

5lbs/A

5lbs/A

3lbs/A

6lbs/A

2lbs/A

1lbs/A

* This can be used around well pads and other areas where caliche cannot be removed.

*Pounds of pure live seed:

Pounds of seed x percent purity x percent germination = pounds pure live seed (Insert Seed Mixture Here)

X. FINAL ABANDONMENT & REHABILITATION REQUIREMENTS

Upon abandonment of the well and/or when the access road is no longer in service the Authorized Officer shall issue instructions and/or orders for surface reclamation and restoration of all disturbed areas.

On private surface/federal mineral estate land the reclamation procedures on the road and well pad shall be accomplished in accordance with the private surface land owner agreement.