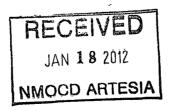


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Form 3160-3 August 2007)	1.	,			.PPROVE 1004-013 ily 31, 201	7	
UNITED STATES DEPARTMENT OF THE I BUREAU OF LAND MAN				5 Lease Serial No. BN SWD-1273 LC-	-053259)A	
APPLICATION FOR PERMIT TO I	•	REENTER		6 If Indian, Allotee	or Imbe	Name	
la. Type of work: DRILL. REENTE	ER .			7 If Unit or CA Agre	ement, N	ame and N	lo
lb. Type of Well. Oil Well Gas Well Other	Singl	le Zonc Multip	ole Zone	8 Lease Name and V Cagney 28 Feder			
2. Name of Operator Mesquite SWD, Inc.	(1	•		9 API Well No 30-015-35249			
3a Address P.O. Box 1479 Carlsbad, NM 88221	3b. Phone No. (6 575-706-18	include area code) 40		10 Field and Pool, or I SWD,Wolfcamp	Explorate	ry	
Location of Well (Report location clearly and in accordance with city At surface 660' FSL & 810' FEL At proposed prod. zone Same	y State requirement	is *)		11 Sec. T.R.M. or B Sec. 28, T17S-R30		irvey or A	rea
Distance in miles and direction from nearest town or post office* 1.6 miles southeast of Loco Hills intersection of CR-217 a	and US-82	12 County or Paris US-82 Eddy				13 Stat NM	e
5 Distance from proposed* 660' location to nearest property or lease line, ft (Also to nearest drig, unit line, if any)	16 No. of acr	No. of acres in lease 17 Spacing Unit dedicated to II NA			well		
8 Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, fi 503' SE	19 Proposed I PB TD 9,15	•		/BIA Bond No on file B000612			
II. Elevations (Show whether DF, KDB, RT, GL, etc.) GL 3624	22. Approxima 06/15/2011	ate date work will sta	23. Estunated duration 10 days				
	24. Attach	ments					
The following, completed in accordance with the requirements of Onshor	re Oil and Gas O	rder No.1, must be a	ttached to t	his form:		·	
 Well plat certified by a registered surveyor A Drilling Plan. A Surface Use Plan (if the location is on National Forest System SUPO must be filed with the appropriate Forest Service Office). 	Lands, the	ltem 20 above). 5 Operator certific 6. Such other site	cation	ons unless covered by an formation and/or plans a			
25 Signature KAY Havenor		BLM Name (Printed Typed) Kay Havenor			Date 05/27/2011		
Title							
Approved by (Signature) /s/ Don Peterson	Name (Printed Typed)			Date	JAN	1 3
FIELD MANAGER	Office		C	ARLSBAD FIELD	OFFIC	E	
Application approval does not warrant or certify that the applicant hole conduct operations thereon. Conditions of approval, if any, are attached	is legal or equita	ble title to those righ	nts in the su	APPROVAL			

Roswell Controlled Water Basin

(Continued on page 2)



Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction

SEE ATTACHED FOR CONDITIONS OF APPROVAL

*(Instructions on page 2)

Approval Subject to General Requirements & Special Stipulations Attached

Operator Certification

Operator: Mesquite SWD, Inc.

P.O. Box 1479

Carlsbad, NM 88221 575-706-1840

Field Representative: Kay Havenor

904 Moore Ave.

Roswell, NM 88201-1144

575-626-4518

KAY CHAVENON

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 which currently 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 27st Day of May, 2011:

Name: Kay Havenor

Position Title: Agent for Mesquite SWD, Inc.

Address: 904 Moore Ave. Roswell, NM 88201-1144

Telephone: 575-626-4518

Email: KHavenor@georesources.com

Mesquite SWD, Inc. Cagney 28 Federal #1 660' FSL & 810' FEL

Sec. 28, T17S-R30E Eddy Co., NM

STATEMENT ACCEPTING RESPONSIBILITY FOR OPERATIONS

The undersigned accepts all applicable terms, conditions, stipulations, and restrictions concerning operations conducted on the land or portion thereof, described below:

Date:

May 27, 2011

SWD well name:

Cagney 28 Federal #1

Legal description:

Sec. 28, T17S-R30E

Eddy County, New Mexico

Formations:

Permian

Bond coverage:

Statewide

BLM Bond File number: NMB000612

Mesquite SWD, Inc.

KAY HAVENOR

Kay Havenor

Agent

Mesquite SWD, Inc.
Cagney 28 Federal #1
660' FSL & 810' FEL
Sec. 28, T17S-R30E Eddy Co., NM

DISTRICT I
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DISTRICT II
1014 Y Constitution, setale, 104 20220
DISTRICT III
OIL CONS

State of New Mexico knorgs, Minurals and Satural Resources Department

Pouls &- 10: Regised October 12, disci

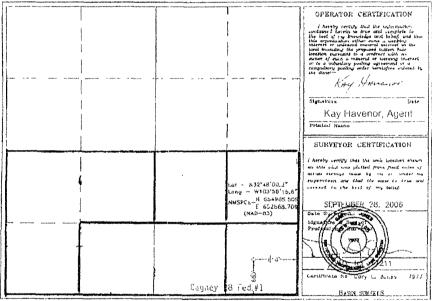
Submit to Appropriate District Circu

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OIL. CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe. New Mexico 87505

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	-35249			V///	-SWD, WOLF CAMP				
-	96/35 _{AGN}				Property Nea NEY "28" F	*			**************************************
° ∞±∞ ₹ 161968		1	Operator Nation Mesquite SWD, Inc						4'
		**************************************		(r) - 4 r - 1 r -	Surface Loca	stien			
Ch or lot My.	Section 28	Toruship 17 S	30 E	Lot ban	Fret from the 650	SOUTH	Feet from the	EAST	FUUY
			Bottom	Hole Inc	cation if Duffe	rent From Sur	facc		
UL of let No.	Section,	Township	Hengs	Lot fån	Feet from the	North/South Has	Fret from the	Ensi/Wost Live	Courty
Dedicated Acre	leigt o	r infili Ca	motidades (Curdo Oro	ier Ho.				
NO ALLE	WADLE W					NTU ALL INTER APPROVED BY 1		EN CONSOLID	VLED
							OPERATO	OR CERTIFICAT	non



Date: 01/06/2012

NMOCD Application: SWD-1273

Operator: Mesquite SWD, Inc

Well Name: Cagney 28 Federal #1 API#: 3001535249 Lease#: LC053259a

T17S-R30E, Sec 28, 660FSL - 810FEL

This well has a New Mexico Oil Conservation Division Form C108 Application for Authorization to Inject.

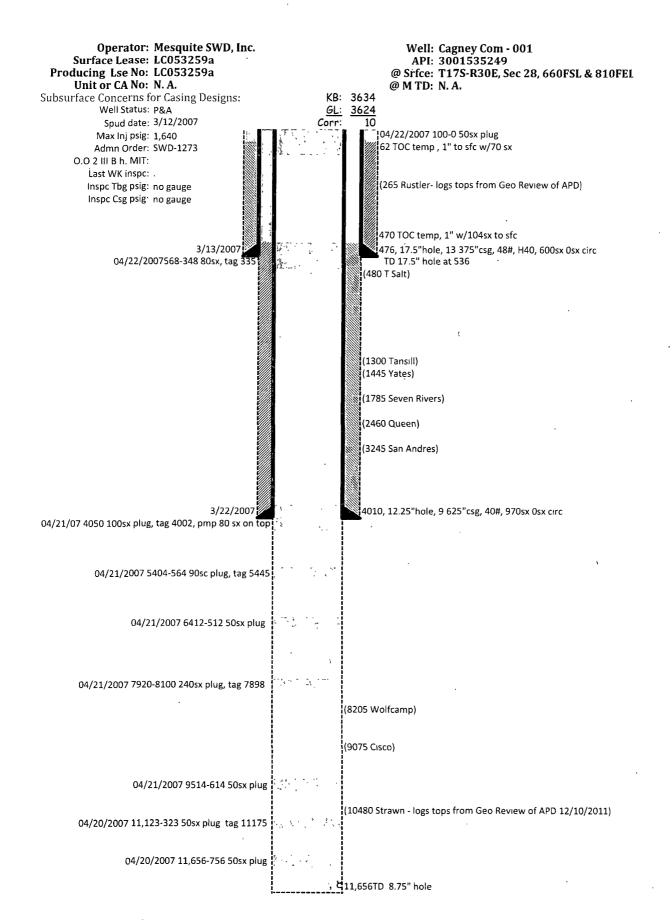
The source of the disposal water will be area wells.

The well seems to be structurally sound for conversion purposes.

A review of wells that penetrate the injection zone within a half mile appear to be adequately constructed or P&A. Their TDs are mostly from 3171-3700, except for Full Tank #4 API 3001535379 TD of 8500 and Full Tank Com #1 API 3001534525 TD of 11750

The BLM has no issues/objections for the conversion of this well.

<u>as of 12/13/2011 - Twenty OFFSET WELLS found - Radius = 2700'</u> API	Total Vert	web site http://www.wellpromapping.com/FPL-PET/PET-WEL/	000	_	A based assard		
• • •	Depth	TD-Hole-Casing(s) w/TOC	Ope Hole/Perfs		Abandoned Hole/Perfs Formations	ELEV.	Lease #
0 CIMAREX GAS CAGNEY COM 1 35249 0' 03/12/07	476	17.5"hole, 13.375"csg, 48#, H40, 600sx 0sx circ, 62 TOC temp, 1" to sfc w/70 sx	Proposed for SW		Total Total Total	3624	LC053259a
	4010	12.25"hole, 9 625"csg, 40#, J55, LTC, 970sx 0sx circ, 470 TOC temp, 1" w/104sx to	9150	-			200532552
4/20-22/07	11,656	8 75"hole,			_		
1 CNCOPHLPS P&A GBJACKSON 1 04376 581' 03/03/38	546	cable tool, 546 - 8 1/4, 32#, 50sx, TOC ???			80sx cmt plug 3000-2178, 60sx plug	3628'	LC053259a
	3250	cable tool, 3090 - 5 3/15", 17#, 100sx , TOC ????			1350-1250, perf@596 sqz to sfc		
					w/230sx, perf@330 150sx plug tag		
1 27 CTURN PAY ON CO LACKSON 24 - 21157 C101 00/27/00		12 1/4" hole, 8 5/8, 24#, 525sx circ cmt			206, perf@200 circ70sx plug to sfc		
2" STHRN BAY OIL GB JACKSON 3A 31157 619 08/22/00		12 1/4" noie, 8 5/8, 24#, 525\$\$ circ cmt 7·7/8" hole, 5 1/2". 15.5#, 1075\$\$ circ cmt	3100 3310	C . 1.		3618	NM028936
3 STHRN BAY OIL GB JACKSON 6Z 30170 831 04/18/98	520	12 25" hole, 8 5/8", 410sx, ??? TOC	3199-3310	Grayburg		26221	
3 311111 BAT OIL GB JACKSON SE 30270 BS1 04/10/30		7 875" hole, 5 1/2", 975sx, 7777 TOC CIBP 3410	3252-3365	GB, SA	3418-566	3622'	LC053259a
44" STHRN BAY , INJ. 2 GB JACKSON 11M 04377 907' 2/7/1949		cable tool, 8.1/2"; 32#,30sx,??? TOC-	3232-3303	- 00, 3A	3418-300	-36235	NM028936a
一种维持可能的特殊的数据,也是一个一种"对"的"特",可是对于特殊的一种维持。	1642	cable tool 77: 20# 75x 2???? TOC sect 2 1/2 and a section of the case of the c	F 4 7 1-21 - 2	7 P. E.		*	11110203308
10. 10. 10. 10. 10. 10. 10. 10. 10. 10.	3418	. rable tool, 3192 PBTD 10/1991, 5,1/2" liner 1517, 3171, 558x, 777, 10C, pkr 2998.	-OĤ 3171-3418	° GB, SA	有一种的一种的一种的一种的一种的一种的一种的一种的一种的一种的一种的一种的一种的一	· 4 1907 8	W 12.71
5 STHRN BAY OIL GB JACKSON 1A 04443 1010' 09/16/41	666	cable tool, 660 - 8 1/4", 28#, 50sx, ??? TOC				3619'	NM028936a
	3160	cable tool, 7", 20#, 100sx, ???? TOC, 5/1992 found csg leaks 1700-2321					
	3432	cable tool, 3280 PBTD 5/1992	OH 3160-3432	GB, SA			
		cable tool, 8/5/8*, 28#, 50sx, ???/TOC	2. 10.40.00 S. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10	3	OH 3207-3268	3629	1 8 m
	33025	cable tobl/77, 24#, 100sx, ???? TOC (485"?" salvaged 1975) Cable tobl/60 qt Nitro	10 15 15 15 15 15 15 15 15 15 15 15 15 15	N 8 6 7 5	2900 CIBP w/75 cmt cap, 1550-1450	cmt plug	560-410
7 STHRN BAY INJ GB JACKSON 1 04359 1188' 7/7/1949	535	cable tool, 8 1/4", 32#, 50sx, 7?? TOC,		198	cmt plug, 25 cmt plug at sfc.		The state of the s
7 3111114 DATE 110 OB 3ACKS 01 1 0 10 33 12 00 7 7 2 3 4 3	2900	cable tool, 7", 20#, 100sx, ???? TOC, PBTD 2785 CIBP			2023-29 Fran (7 Rvrs)	3631	NM0467934
	3265		O H 2900-3265	GB, SA	2023-29 Fran (7 KVIS)		
8 -STHRN BAY OIL GB JACKSON 9 31272 1472 08/01/00	· 511,	12 1/4" hole 8 5/8 24#, 400sx TOC ???	· 1 · 1 · 2/1 · 2/1		The state of the s	3631	NM028936c
	3650	7 7/8- Noie, 3 1/2 13.3#, 10/3\$X TQC: [77	3027-614	GB, SA		4 7 4	18 TO 18
9 STHRN BAY OIL GB JACKSON 2 04360 1514' ?/?/1949		found no useable wellbore records on nmocd				3632'	
(10) STHRN BAY PAA GB JACKSON 10 04445: 1516 04/01/39 02/22/10-		cable tool, 8 1/4, 28# 50sx TOC ???	facilities are reflected in the reflected				* *
	2947	7", 20#, 100sx, ???? TOC.,				, 3616	ئېرى (دې د مۇلە ئ ئۇللى ئاس
	3360	90 denitro	О н 2947-3305	GB, SA	ping to sic wy clint train 023		
11 STHRN BAY OIL GB JACKSON 13 30022 1835 02/15/98		12 1/4" hole, 8 5/8, K55, 24#, 853sx 777 TOC	U H 2347-3303	UB, 3A.	mil i i i i i i i i i i i i i i i i i i	3620'	NM0467934
		7 7/8" hole, 5 1/2", J55, 17#, 850sx TOC ????	3169-444	GB Primier		3020	NIVIU46/934
12. GIMAREX P&A FUIL TANK 4. 35379, 1948 03/22/07 04/20/07	499	17 1/2" hole, 13 3/8, H40, 48#, STG, 451sx circ 58sx	J188	20.00	Plug 1'8487-8384"Plug 2'8241-8061, Plug 3	3610	NM0467934
	4010	12.1/4" hole, 9.5/8, 155, 40#, 1977sx circ 473sx			·5375-5225; Plug 4 4081-3746; Plug 5 632		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
to have the state of the state		83/4"hole		<u> </u>	297, Plug 6 25sx to surface	ų ve	47-16-18
13 CIMAREX GAS FULL TANK COM 1 34525 2031' 04/28/06	510	17 1/2" hole, 13 3/8, H40, 48#, STC, 470sx circ 23sx				3611'	NM0467934
		12 1/4" hole, 9 5/8, J55, 40#, 1200sx circ 66sx					
		8 3/4" hole, 7", P110, 26#, LTC, 450sx TOC 3400, DV Tool 8644 6 1/8" hole, 4 1/2", P110, 11.6#, LTC, top liner 9135, 275sx TOC 3000 CBL	11360-402 11556-576	Morrow			
142 STHRN BAY, INJS GB JACKSON 2 10531 2079 06/05/65		Pulled 8.5/8" csg as no water encountered	11556-576	Morrow		3644	(Menerales E)
and the state of t	3095	5 1/2" 14#-130sx 7777-T0C 09/01/2006 sq7 leak 65-105"	. 2998:3308		Has approved NOI to P&A	3-044 T	LC053259a
	*3135	openhole					
15 STHRN BAY OIL GB JACKSON 3 21692 2238' 12/14/75	502	12 1/4" hole, 8 5/8", 24#, 100sx			and the control of th	3630'	LC053259a
	3185	7 7/8" hole, 4 1/2", 9.5 & 10 5#, 700sx TOC ????. Perf @150 circ cmt to sfc	3098-102	Premier			
ter terminal out to account the many to the terminal out to the te	407	117 hala of 107 107 244 100	2980-3133	GB, SA		· ·	-
16 STHRN BAY OIL GB JACKSON 12 20256 2409 10/06/69		11" hole, 8 5/8", J55, 24#, 100sx 7 7/8" hole, 5 1/2", J55, 17#, 200sx TOC ????	nica or	CD CA		3624	NM0467934
17 CIMAREX GAS CAGNEY COM 2 35250 2479' Not drilled, afmss status is UAPD	3240	1 1/U HUIE, 3 1/2 , 133, 1/H, 2005X 1UC (())	3161-96	GB, SA	. سر بیده میشد سیانده سیست ساند.	7624	المناسخيس
27 Symmetry and Charles Source Source 2773 Hot armon attributed to the						3621	LC0289303
18 STHRN BAY INJ GB JACKSON 3Q 04358 2490' 05/31/40	660	cable tool, 8 14", 24#, 50sx, ??? TOC			•	3627'	LC060528b
Need to check this well out, had a questionable MIT 11/13/1997, may have been worked on	3169	cable tool, 7", 20#, 100sx, ??? TOC					
nmocd records have very limited wellbore info	3252		O H 3235-52	•			
19 STHRN BAY OIL GB JACKSON 6 10463 2575' 03/24/65	580	cable tool, 8 5/8", 24#, 100sx, 7?? TOC				3650'	NM0467934
	3119 3171	cable tool, 5 1/2", 14#, 150sx, ??? TOC O H	3087-91 3107-9				
20" STHRN BAY INJ GB JACKSON 2 04446, 2676' 04/25/41	699	cable tool, 8", 24#, 50sx, ??? TOC	O H 3123-36	Primier	3050 CIBP w/75'cmt cap, cmt plug 1300-1200;7"		,
20 STRING BAT , INT. GB TACKSON 2 04440, 2010 04/25/41		cable tool. 7". 20#, 100sx, ??? TOC			pulled from 117', cmt plug from 170 to sfc	3595',	1
	3281				QH 3260-81 Primier		1
					OURSE SHUISEL		



Mesquite SWD, Inc. RE-ENTRY PROGRAM

Cagney 28 Federal #1 API: 30-015-35249 Sec. 28, T17S-R30E Eddy Co., NM

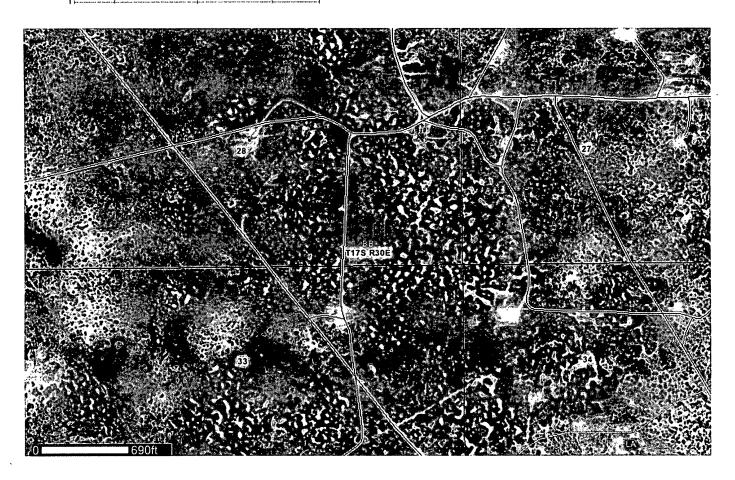
Supplemental to Form 3160-3, Application for Permit to Re-enter the subject well, Mesquite SWD, Inc submits the following information as per Bureau of Land Management requirements.

1. Geologic Name of Surface Formation

Surface is Quaternary eolian and piedmont deposits (Qep) Holocene to middle Pleistocene. (New Mexico Bureau of Geology and Mineral Resources, 2003, Geologic Map of New Mexico, 1:500,000)

Soil map with legend. Source: http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx

Eddy Area, New Mexico (NM614)							
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI				
88	Berino complex, 0 to 3 percent slopes, eroded	137,949.5	5.4%				



Pad location is north of soil designation "BB"

2. Formation Tops and Estimated Fresh Water:

The of geologic markers and estimated depths at which anticipated water, oil or gas formations are expected to be encountered as follows:

558'
1,292
1,854
2,483'
3,364
6,642'
7,305
7,865
8,048
8,987'

None of the formations beneath the Bone Springs and above the Pennsylvanian Cisco were found to be potentially productive of oil or gas in this well or other wells in the NM OCD C-108 SWD application area of review. Although no fresh water is known in the NM OCD area of review, potential shallow sands are protected by 13-3/8" casing set at 470' and cement circulated to the surface, and 9-5/8" casing set at 4,010' and cement circulated to the surface.

3. Casing:

Currently in hole, not pulled

Hole Size	Casing	Depth Set	Cement	Top Cement
17-1/2"	13-3/8" 48# 11-40	470'	460 sx	Circulated
12-1/4"	9-5/8" 40# J-55	4010'	970 sx	Circulated

Proposed Casing

Hole Size	Interval	OD Casing	New Used	Wt	Connection	Grade	Collapse Design Factor	Burst Design Factor	Tension Design Factor
8-3/4"	0 - 6,450'	7"	New	23#	8 - R LTC	N-80	1.125	1.125	1.6
8-3/4"	6,450' - 7350'	. 7"	New	26#	8 - R STC	K-55	1.125	1.125	1.6
8-3/4"	7,350' - 9,150'	7"	New	26#	8 · R STC	N-80	1.125	1.125	1.6

4. Cement Program:

Original completion

13-3/8" Surface @470' w/460 sx + 7 sx w/1" to surface.

9-5/8" Intermediate @4,010' w/970 sx, no circ. TS cmt @470', circ w/2-1"job w/104 sx.

Proposed Re-entry 7" Cement Program

Dv tool set approximately 8,200'.

1st stage lead

r stage lead

165 sxs Class C 35/65 + 6% Bentonite + 0.6 C-15 + 0.1% C-20 + 0.25% C-45 + 0.6% FL-10 + 1# Gilsonite + 0.25% R-38. Density: 12.70 #/gal. Yield: 1.86 ft³/sx. Mixing wtr: 9.87 gal/sx. Total mix wtr: 38.76 bbls. Slurry vol: 54.77 bbls.

2nd stage lead

845 sxs Class C 35/65 + 6% Bentonite + 0.6 C-15 + 0.1% C-20 + 0.25% C-45 + 0.6% FL-10 + 1# Gilsonite + 0.25% R-38. Density: 12.70 #/gal, Yield: 1.86 ft³/sx. Mixing wtr: 9.87 gal/sx. Total mix wtr: 198.52 bbls. Slurry vol: 280.51 bbls.

2nd stage tail

100 sxs Class-H +0.25% R-38

Density: 15.60 #/gal. Yield: 1.18 ft³/sx. Mixing wtr: 5.22 gal/sx. Total mix wtr: 12.43 bbls. Slurry vol: 21.02 bbls.

Cement calculated at 25% excess.

3. Casing:

Currently in hole, not pulled

Hole Size	Casing	Depth Set	Cement	Top Cement
17-1/2"	13-3/8" 48# H-40	470'	460 sx	Circulated
12-1/4"	9-5/8" 40# J-55	4010'	970 sx	Circulated

Proposed Casing

Hole Size	Interval	OD Casing	New Used	Wt	Connection	Grade	Collapse Design Factor	Burst Design Factor	Tension Design Factor
8-3/4"	0 - 9,150'	7"	New	26#	8 - R LTC	N-80	1.183	1.580	2.18

4. Cement Program:

Original completion

13-3/8" Surface @470' w/460 sx + 7 sx w/1" to surface. 9-5/8" Intermediate @4,010' w/970 sx, no circ. TS cmt @470', circ w/2-1"job w/104 sx.

Proposed Re-entry 7" Cement Program

Dv tool set approximately 8,200'.

1st stage lead

165 sxs Class C 35/65 + 6% Bentonite + 0.6 C-15 + 0.1% C-20 + 0.25% C-45 + 0.6% FL-10 + 1# Gilsonite + 0.25% R-38. Density: 12.70 #/gal. Yield: 1.86 ft³/sx. Mixing wtr: 9.87 gal/sx. Total mix wtr: 38.76 bbls. Slurry vol: 54.77 bbls.

2nd stage lead

845 sxs Class C 35/65 + 6% Bentonite + 0.6 C-15 + 0.1% C-20 + 0.25% C-45 + 0.6% FL-10 + 1% Gilsonite + 0.25% R-38. Density: $12.70 \, \#$ /gal. Yield: $1.86 \, \text{ft}^3$ /sx. Mixing wtr: $9.87 \, \text{gal/sx}$. Total mix wtr: $198.52 \, \text{bbls}$. Slurry vol: $280.51 \, \text{bbls}$.

2nd stage tail

100 sxs Class-H +0.25% R-38

Density: 15.60 #/gal. Yield: 1.18 ft³/sx. Mixing wtr: 5.22 gal/sx. Total mix wtr: 12.43 bbls. Slurry vol: 21.02 bbls.

Cement calculated at 25% excess.

5. Pressure Control Equipment:

3M BOP shown on the above diagram is representative of the minimum type to be utilized by the drilling contractor. The BOP and manifold test will be used to pressure casing/tubing for 30 minutes prior to reaching 9-5/8" casing shoe at 4,010'. BOP equipment will be tested daily during re-entry.

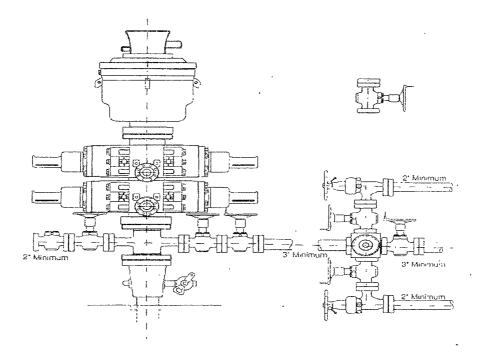
Nipple-up on 9/5/8" casing with 3M system and test to 3000# with independent tester.

BOP will be operationally checked each 24 hour period. BOP will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. A3" kill line and a 3" choke line will be included in the drilling spool located below the BOP. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold with 3000 psi working pressure rating.

3000 psi BOP and Manifold

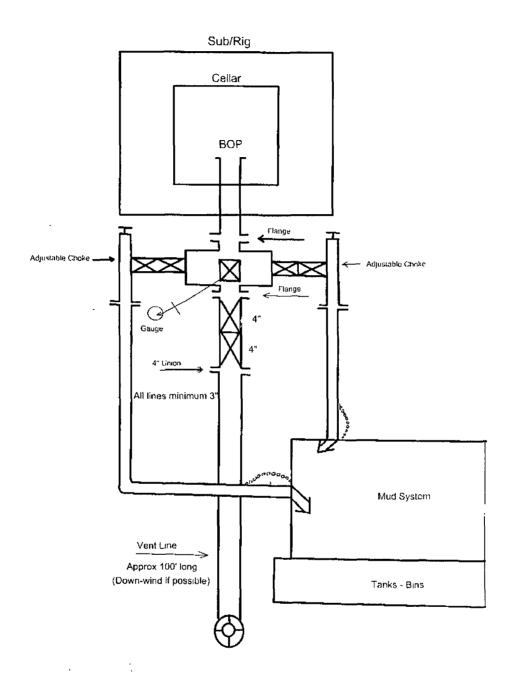
Schematic using Townsend 81 Series

Mesquite SWD. Inc. Cagney 28 Federal #1 Sec. 28, T17S-R30E Eddy Co. NM



Note: No anomalous pressures were reported in the original drilling of this well to TD 11,756'.

Mesquite SWD, Inc. Choke Manifold Equipment



Hydrogen Sulfide Drilling Operations Plan

Mesquite SWD, Inc.
Cagney 28 Federal Com No. 1
Unit P Section 28
T17S - R30E Eddy County, NM

- 1. H2S Detection and Alarm Systems
 - A. H₂S detectors and audio alarm system to be located at bell nipple, end of flow line (mud pit) and on derrick floor or doghouse.
- 2. Windsock and/or wind streamers
 - A. Windsock at mudpit area should be high enough to be visible.
 - B. Windsock at briefing area should be high enough to be visible.
- 3. Condition Flags and Signs
 - A. Warning sign on access road to location.
 - B. Flags to be displayed on sign at entrance to location. Green flag, normal safe condition. Yellow flag indicates potential pressure and danger. Red flag, danger, H₂S present in dangerous concentration. Only emergency personnel admitted to location.
- 4. Well control equipment
 - A. See "Pressure Control Equipment" above.
- 5. Communication
 - A. While working under masks chalkboards will be used for communication.
 - B. Hand signals will be used where chalk board is inappropriate.
 - C. Two way radio will be used to communicate off location in case emergency help is required. In most cases cellular telephones will be available at most drilling foreman's trailer or living quarters.
- 6. Drillstem Testing not anticipated.
- 7. Drilling contractor supervisor will be required to be familiar with the effects H₂S has on tubular goods and other mechanical equipment.
- 8. If H₂S is encountered, mud system will be altered if necessary to maintain control of formation. A mud gas separator will be brought into service along with H₂S scavengers if necessary.

11. Anticipated Starting Date and Duration of Operations:

Road and location repair will begin after the BLM has approved the APD. Re-entry date will follow as soon as drilling rig and equipment are available. Re-entry, well preparation for injection, and lease clean-up are expected to require approximately 15 days.

12. After running and cementing 7" casing and release of drilling rig, a GR-Collar log will be run and perforations made in the over-all interval 8,284' - 8,970'. The perforations will be acidized.

EMERGENCY CALL LIST

Carlsbad Fire Department

Mesquite SWD, Inc. 575-885-3996

Clay Wilson 575-706-1840

Kay Havenor 575-626-4518

EMERGENCY RESPONSE NUMBERS

575-885-3125

State Police 575-748-9718 Eddy County Sheriff 575-746-2701 **Emergency Medical Services** 911 or 575-746-2701 Artesia Fire and Ambulance 575-746-5050 Maljamar Fire and Ambulance 575-674-4100 Artesia General Hospital 702 N. 13th St. Artesia 575-748-3333 Carlsbad Medical Center 2430 West Pierce Street 575-887-4100 Carlsbad Police Department 575-885-2111 Eddy County Emergency Management 575-887-9511

Mesquite SWD, Inc. Cagney 28 Federal #1 660' FSL & 810' FEL Sec. 28, T17S-R30E Eddy Co., NM

NOTICE OF STAKING

NOTICE OF STAKING Not to be used in place of Application for Permit to Drill (Form 3160-3)	
1. Name Address, and Telephone of Operator: Mesquite SWD, Inc. P.O. Box 1479 Carlsbad, NM 88221	3. Lease Number: NMLC 053259A
2. Name & Phone # of Contact Person: Kay Havenor 575-626-4518	NMNM
4. Well Name and Number	5. Section, Township, Range
Surface Location of Well SIIL: 660' FSL & 810' FEL	28, T17S-R30E
(Anticipated) BHL: Same	6. County Eddy
Attach: (a) Sketch showing road entry onto pad, pad dimensions, and reserve pit (b) Topographical or other acceptable map (e.g. a USGS 71/2" Quadrangle) showing location, access road, and lease boundaries	7. Field Name or Wildcat: 9. Agreement Number:
8. Oil Well Gas Well Other (Specify) SWD	3. Agreement Number.
10. Estimated Well Depth: Original TD 11,756' Approx PB TD for SWD 9,150'	11. # of Acres Dedicated to this well:
12. Name and Depth of Formation Objective(s) Wolfcamp 8,048'	13. Operator Bond # NMB000612
14. Estimated Well Depth	15. API # (if available): 30-015-35249
17. Additional information (as appropriate; include surface owner	r's name, address & phone #).
Kay Havenor Age 18. Signed Kay Havenor Title	nt 5/27/20011 Date

Note: When the Bureau of Land Management receives this Notice, the agency will schedule the date of the onsite inspection. You must stake the location and flag the access road before the onsite inspection. Operators should consider the following before the onsite inspection and incorporate these considerations into the Notice of Staking Option, as appropriate:

- (a) II2S Potential;
- (b) Cultural Resources (Archaeology); and
- (c) Federal Right-of-Way or Special Use Permit.

PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME:
LEASE NO.:
NMLC053259A
WELL NAME & NO.:
SURFACE HOLE FOOTAGE:
BOTTOM HOLE FOOTAGE
LOCATION:
COUNTY:
Mesquite SWD Inc.
NMLC053259A
Cagney 28 Federal 1
660' FSL & 810' FEL
Section 28, T. 17 S., R. 30 E., NMPM
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
Lesser Prairie-Chicken Timing Stipulations
Ground-level Abandoned Well Marker
Construction
Notification
Topsoil
Closed Loop System
Federal Mineral Material Pits
Well Pads
Roads
☐ Road Section Diagram
Drilling H2S Paguiraments Onchara Ondar 6
H2S Requirements—Onshore Order 6 Production test
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.

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 in a low profile manner in order to prevent wind/water erosion of the topsoil. The topsoil to be stripped is approximately 4 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 (20) 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.

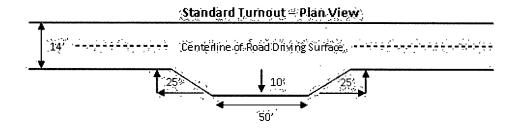
The Authorized Officer reserves the right to require surfacing of any portion of the access road at any time deemed necessary. Surfacing may be required in the event the road deteriorates, erodes, road traffic increases, or it is determined to be beneficial for future field development. The surfacing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

Turnouts

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

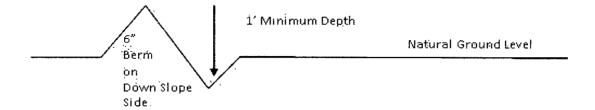


Drainage

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

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

Cross Section of a Typical Lead-off Ditch



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

Formula for Spacing Interval of Lead-off Ditches

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

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

Culvert Installations

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

Cattleguards

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

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

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

Fence Requirement

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

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

Public Access

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

VII. DRILLING – Re-entry

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. BOPE tests

Eddy County

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

- 1. A Hydrogen Sulfide (H2S) Drilling Plan should be activated prior to drilling out the intermediate shoe. 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. If the drilling rig is removed without approval an Incident of Non-Compliance will be written and will be a "Major" violation.
- 3. Prior to commencement of injection into the Wolfcamp formation the operator shall prove the injection zone does not contain hydrocarbons capable of being produced in paying quantities.

B. CASING - Re-entry

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.

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.

- 1. The **13-3/8** inch surface casing is set at 470 feet, cement did not circulate. 1" remedial job to surface.
- 2. The **9-5/8** inch intermediate casing is set at 4010 feet, cement did not circulate. 1" remedial job to surface.
- 3. The minimum required fill of cement behind the 7 inch production casing is:
 - 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. Additional cement may be required excess calculates to 2%.
- 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. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface plug shall be **3000** (**3M**) 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 utilizing a test plug **not a cup or J-packer**.
 - 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.

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

B. PIPELINES

STANDARD STIPULATIONS FOR SURFACE INSTALLED PIPELINES

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

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.

	on and main 		ity will be conf	fined to the authorized	right-of-
7. No blading or by the Authorized	_	any vegetatio	n will be allow	ed unless approved in	writing
				uch a manner that will In hummocky of dunc	

9. The pipeline shall be buried with a minimum of _______ 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.

the pipeline will be "snaked" around hummocks and dunes rather then suspended across

these features.

- 10. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.
- 11. In those areas where erosion control structures are required to stabilize soil conditions, the holder will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.
- 12. Excluding the pipe, all above-ground structures not subject to safety requirement shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be a color which simulates "Standard Environmental Colors" **Shale Green**, Munsell Soil Color No. 5Y 4/2; designated by the Rocky Mountain Five State Interagency Committee.
- 13. The pipeline will be identified by signs at the point of origin and completion of the right-of-way and at all road crossings. At a minimum, signs will state the holder's name, BLM serial number, and the product being transported. Signs will be maintained in a legible condition for the life of the pipeline.
- 14. The holder shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the holder. The holder will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway.
- 15. Any cultural and/or paleontological resource (historic or prehistoric site or object)

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

16. Special Stipulations:

Lesser Prairie-Chicken

Oil and gas activities 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. 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.

C. ELECTRIC LINES

STANDARD STIPULATIONS FOR OVERHEAD ELECTRIC DISTRIBUTION LINES

A copy of the grant 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, 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.

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>lb/acre</u>
Plains Bristlegrass	5lbs/A
Sand Bluestem	5lbs/A
Little Bluestem	3lbs/A
Big Bluestem	6lbs/A
Plains Coreopsis	2lbs/A
Sand Dropseed	1lbs/A

^{*}Pounds of pure live seed:

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