				A	ITS-	10-2	ł
RECEIVED O	CD-HOBI	35		٢			•
NOV 17 2009			1	FORM AP	PROVED		
HOBBSOCD				OMB No. 1 Expires Mar	1004-0137 rch 31, 2007		
UNITED STATES DEPARTMENT OF THE 1				5. Lease Serial No.			
BUREAU OF LAND MAN	AGEMENT			6. If Indian, Allotee of	r Tribe Nati	ne	
APPLICATION FOR PERMIT TO	DRILL OR R	EENTER		0. If malan, motor of	1 11100 1 1		
a. Type of work: 🗸 DRILL 🗌 REENTH		<u> </u>		7 If Unit or CA Agreer	nent, Name	and No.	
a. Type of work: 🖌 DRILL 🔄 REENTI				8. Lease Name and W	ell No.	3780	Ŕ
b. Type of Well: 🔽 Onl Well 🔲 Gas Well 🛄 Other	Single	Zone Multip	ole Zone	Nana 30 Fed 2H	_		~
Name of Operator Devon Energy Production Company, L	P	1 mm		9. API Well No. 30 - 02	5-39	579	
	10. Field and Pool, or Ex		1211				
a. Address 20 North Broadway Oklahoma City, Oklahoma 73103-8260	3b. Phone No. ( <i>u</i> (405) 552			Lusk; Bone Spr			
Location of Well (Report location clearly and in accordance with ca	ny State requirements	*)		11. Sec., T R. M. or Blk	and Survey	y or Area	
At sufface	it J			Sec 30 T18S R3	2E		
At proposed prod. zone 360 FSL & 1980 FEL		12. County or Parish 13. State					
4 Distance in miles and direction from nearest town or post office* Approximately 10 miles south of Maljamar, NM				Lea		NM	
5 Distance from proposed*	16. No. of acre	s in lease	17. Spacin	g Unit dedicated to this we	ell	_	
location to nearest property or lease line, ft (A be to engreat dire unit line, if any) 660' and 660'	241.110		80				
(Also to hearest drig tunit line, if ally)	19. Proposed D	epth	20. BLM/	BIA Bond No. on file			
8. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. <b>1300'</b>	TVD 8415'	MD 10,120'	CO-1	104			
1. Elevations (Show whether DF, KDB, RT, GL, etc.)	22 Approxima	te date work will sta	urt*	23. Estimated duration			
3702' GL	<u> </u>	01/01/2010		45 days			
	24. Attachi			· · · · · · · · · · · · · · · · · · ·			
he following, completed in accordance with the requirements of Onsho					1	1 (11 (	
Well plat certified by a registered surveyor		<ol> <li>Bond to cover to Item 20 above).</li> </ol>		ns unless covered by an e	existing bor	nd on file (see	
<ol> <li>A Drilling Plan.</li> <li>A Surface Use Plan (if the location is on National Forest System</li> </ol>	1 Lands, the	5. Operator certifi	cation	ormation and/or plans as	-	uired by the	
SUPO shall be filed with the appropriate Forest Service Office).		<ol> <li>Such other site authorized offi</li> </ol>	cer.				
25 Signature		rinted/Typed)		}	Date 09/28	/2009	
itie	> N	orvella Adams					
Senior Staff Engineering Technician							,
Approved by (Signature) /s/ Don Peterson	Name (1	Printed/Typed)			Date	NOV 1	3
		CADI	SBAL	FIELD OF	FICE		_
itle Juli FIELD MANAGER	Office						
Application approval does not warrant or certify that the applicant ho			hts in the su	bject lease which would e	ntitle the ap	plicant to	
Application approval does not warrant or certify that the applicant ho			hts in the su		ntitle the ap	plicant to EARS	:
Title Wit FIELD MANAGER	lds legal or equita A-09 crime for any per-	ble title to those rig	hts in the su APP	bjectlease which would e ROVAL FOR T	ntitle the ap	EARS	=

Capitan Controlled Water Basin

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# SEE ATTACHED FOR CONDITIONS OF APPROVAL

APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED

## RECEIVED

DISTRICT I 1625 N. French Dr., Hob DISTRICT II 1301 W. Grand Avenue, A DISTRICT III 1000 Rio Brazos Rd.,	Artenia, NM 8	HOBE	172009 3SOCE 011	CON	State of 1 erals and Nature SERVAT 20 South Sta Fe, New	TION I TION I	B Departmen DIVISI S Dr.	ot <sub>Submit</sub> t ON	Forn Revised October o Appropriate Distr State Lease – Fee Lease –	ict Office 4 Copies
DISTRICT IV 1220 S. St. Francis Dr.,			VELL LO		AND ACF	EAGE DE	EDICATIO	De al Marma	AMENDED	REPORT
API N		0-0	•	ool Code	450	Lusk	Bone	e Springs	both	
30-0		4570	2	650 4(	Property				Well Nu	mber
Property Co				N		FEDERAL	<u></u>		2H Elevat	ion
OGRID No.	00				Operator	Name ICTION C		1P	3702	
6137			DEVON	I ENER	Surface					
					Feet from t		South line	Feet from the	East/West line	County
UL or lot No.	Section	Township	Range	Lot Idn	2310	,	UTH	1980	EAST	LEA
J	30	18 S	32 E	<u> </u>	ocation If I			face		<b>_</b>
				Hole Lo Lot Idn	Feet from		South line	Feet from the	East/West line	County
UL or lot No.	Section	Township	Range 32 E	Lot Iun	360		DUTH	1980	EAST	LEA
O Dedicated Acres	30 Joint d		nsolidation	Code 0	order No.					
80		·								
NO ALLO	WABLE V	VILL BE A	SSIGNED	TO THIS	COMPLETIC	N UNTIL	ALL INTER	RESTS HAVE B	EEN CONSOLID	ATED
110 11110		OR A I	NON-STAL	NDARD U	NIT HAS BI	EN APPRO	IVED BI	THE DIVISION		
GRID N: 625544.61 GRID E: 700943.23 LATITUDE: 32*43'0 LONGITUDE:	2331 150 150 150 150 150 150 150 150 150 15	Lat - N32 Long - W SPC- N:: (NAD BOTTOM H Lat - N32 Long - W SPC- E:: (NAL GRID N:622 GRID N	103*48*12.6 625221.82 704281.87 	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 LONGHOL 1 1980'- 1 1 1 1 1 1 1 1 1 1 1 1 1	225559.429 06259.257 52.4306.803 E: -10347749. 22018.508 06276.075 5224240.677 5224240.677	contained here the best of my interest or uni- land including location pursu- of such a min- a voluntary pr compulsory po- the dwiston. Signature Norvella Printed Nau- Sil' SURVEY I hereby cert on this plat actual survey supervison, correct to OC Date Survey Signature Profession		ATION ation shown eld notes of under my is true and ief.





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EL ange 32 East, DEVON ENERGY
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PETRA 9/17/2009 10 56 47 AM

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## DRILLING PROGRAM

# Devon Energy Production Company, LP

Nana 30 Fed 2H

Surface Location: 2310' FSL & 1980' FEL, Unit J, Sec 30 T18S R32E, Lea, NM Bottom Hole Location: 360' FSL & 1980' FEL, Unit O, Sec 30 T18S R32E, Lea, NM

# There is a Plan of Development in place for this well.

#### Geologic Name of Surface Formation 1.

a. Quaternary

### Estimated Tops of Geological Markers & Depths of Anticipated Fresh Water, Oil or Gas: 2.

	001	Fresh Water
a. Quaternary	20'	-
1 D 1 D-1	1000'	Fresh Water
	1276'	
c. Salado Salt	2463'	
d. Tansil Dol.		
e. Yates Ss	2581'	
f. Seven Rivers	3069'	
O	3654'	
g. Queen Ss	3701'	,
h. Grayburg	4436'	
i. Cherry Canyon Ss		
i. Brushy Canyon Ss	5139'	0'1
k. 1 <sup>st</sup> Bone Spring Lm	6687'	Oil
	8111'	Oil
1. 1 <sup>st</sup> Bone Spring Ss	8625'	Oil
m. 2 <sup>nd</sup> Bone Spring Lm	0025	

No other formations are expected to yield oil, gas or fresh water in measurable volumes. The surface fresh water sands will be protected by setting 13 3/8" casing at 1050' and circulating cement back to surface. The Bone Spring intervals will be isolated by setting 5 1/2" casing to total depth and circulating cement back to surface. DV tool will be set at 6500'.

لم

#### Cosing Program: 3.

Hole	Hol <u>e</u>	OD Csg	Casing	<u>Weight</u>	<u>Collar</u>	<u>Grade</u>
Size 17 <sup>1</sup> / <sub>2</sub> " 12 1/4" 8 1/2"	<u>Interval</u> 60' – 1050' 1050'- 2530' 2530'-10,120'	13 3/8" 9 5/8" 5 1/2"	<u>Interval</u> 0'- 1050' 0'- 2530' 0-10,120'	48# 40# 17#	ST&C LT&C LT&C	H-40 K-55 N-80

Design Parameter Facto <u>Casing Size</u>	rs: <u>Collapse Design</u> Facto <u>r</u>	<u>Burst Design</u> <u>Factor</u>	<u>Tension Design</u> <u>Factor</u>
13 3/8"	2.9	2.5	7.1
9 5/8"	1.78	2.82	4.39
5 ½"	1.58	2.38	2.21

	Cement Program: See C	COA
4.	a. 13 3/8" Surface	Lead with 370 sx (35:65) Poz Premium Plus C + 5% NaCl + $\frac{1}{4}$ lbs/sx Cello Flake, and 4% Bentonite + 0.8% Sodium Metasilicate + 5% MPA-5; 12.8 ppg, 1.96 cf/sx, 10.55 gps. Tail with 220 sx Premium Plus C + 2% CaCl <sub>2</sub> + $\frac{1}{4}$ lbs/sx Cello Flake; 14.8 ppg, 1.35 cf/sx, 6.35 gps. TOC = 0.
·	b. 9 5/8" Intermediate	Lead with 460 sx (35:65) Poz Premium Plus C + 0.8% Sodium Metasilicate + 5% MPA-5 + 5% NaCl + $\frac{1}{4}$ lbs/sx Cello Flake + 4% Bentonite; 12.8 ppg, 1.96 cf/sx, 10.55 gps. Tail with 320 sx Premium Plus C + $\frac{1}{4}$ lbs/sx Cello Flake; 14.8 ppg, 1.33 cf/sx, 6.32 gps. TOC = 0.
	c. 51/2" Production	Stage 1: 480 sx (15:61:11) Poz Premium Plus C + 1% KCl + 0.75% EC-1 + 0.4% CD-32 + 3 #/sx LCM-1 + 0.6% FL-25 + 0.6% FL-52A; 13.30 ppg, 1.56 cf/sx, 7.55 gps TOC = 0. Stage 2: Lead with 830 sx (35:65) Poz Premium Plus C + $\frac{1}{4}$ lbs/sx Cello Flake + 6% Bentonite; 12.5 ppg, 1.94 cf/sx, 10.65 gps. Tail with 200 sx (60:40) Poz Premium Plus C + 2% NaCl + 0.1% Sodium Metasilicate + 4% MPA-5. 13.8 ppg, 1.35 cf/sx, 6.29 gps. TOC = 0.

The above cement volumes could be revised pending the caliper measurement from the open hole logs. The top of cement is designed to reach the surface. All casing is new and API approved.

#### **Pressure Control Equipment:** 5.

stack, and a rotating head. Both the hydril and ram stack will be hydraulically operated. Both BOP systems will be rated at 5000 psi. Prior to drilling out the the 13 3/8" surface shoe the ram stack will be nippled up with 4.5" pipe rams installed. The hydril will be tested to 1000-psi (high) and 250 psi (low). Tests on the 5000 psi BOP will be conducted per the BLM Drilling Operations ~ Spe COA Order #2.

The ram system will be operated and checked each 24-hour period and each time the drill pipe is out of the hole. These tests will be logged in the daily driller's log. A 2" kill line and 3" choke line will be incorporated into the drilling spool below the ram BOP. In addition to the rams and hydril, other BOP accessories include a kelly cock, floor safety valve, choke lines and choke manifold rated at 5000 psi WP.

**Proposed Mud Circulation System** 6.

1 TOPOSCU MARA C	an control of sy			,	
Depth	Mud Wt.	<u>Visc</u>	<u>Fluid Loss</u>	<b>Type System</b>	
$\overline{60' - 1050'}$	9.6	34	NC	Fresh Water	
1050'-2530'	10.2	30	NC	Brine	
2530'- 10,120'	`8.7	29	NC	Fresh Water	

The necessary mud products for weight addition and fluid loss control will be on location at all times.

#### Auxiliary Well Control and Monitoring Equipment: 7.

- a. A Kelly cock will be in the drill string at all times.
- b. A full opening drill pipe stabbing valve having the appropriate connections will be on the rig floor at all times.
- c. Hydrogen Sulfide detection equipment will be in operation after drilling out the 9 5/8" casing shoe until the 5 1/2" casing is cemented. Breathing equipment will be on location upon drilling the 9 5/8" shoe until total depth is reached.

#### Logging, Coring, and Testing Program: 8.

- a. Drill stem tests will be based on geological sample shows.
- b. If a drill stem test is anticipated; a procedure, equipment to be used and safety measures will be provided via sundry notice to the BLM.

- c. The open hole electrical logging program will be: See

- Dual Laterolog-Micro Laterolog with SP i. Total Depth to Intermediate Casing and Gamma Ray. Compensated Neutron - Z Density log with Gamma Ray and Caliper. Compensated Neutron with Gamma Ray
- ii. Total Depth to Surface
- iii. No coring program is planned
- iv. Additional testing will be initiated subsequent to setting the 5 1/2" production casing. Specific intervals will be targeted based on log evaluation, geological sample shows and drill stem tests.

#### 9. **Potential Hazards:**

No abnormal pressures or temperatures are expected. A H2S contingency plan will be provided. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. Estimated BHP 4500 psi and Estimated BHT 175°.

#### Anticipated Starting Date and Duration of Operations: 10.

a. Road and location construction will begin after the BLM has approved the APD. Anticipated spud date will be as soon after BLM approval and as soon as a rig will be available. Move in operations and drilling is expected to take 45 days. If production casing is run then an additional 45 days will be needed to complete well and construct surface facilities and/or lay flow lines in order to place well on production.

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# Devon Energy

Lea Co., New Mexico (Nad 83) NANA 30 Fed #2H NANA 30 Fed #2H

Lateral #1

Plan: Design #1

# **Standard Planning Report**

29 September, 2009



evon		(	CUDD Drillin	I <b>g &amp; Meas</b> Planning F	Report	Service	n 1969 Eldeniaett för att statter blandet att statter att statter		DRILLING & MEASUREMENT SERVICES
abase: npany: ject: II: ilibore: sign:	EDM 2003.21 S Devon Energy Lea Co., New I NANA 30 Fed NANA 30 Fed Lateral #1 Design #1	Mexico (Nad 8 #2H		TVD Re MD Ref	o-ordinate Ref ference: erence: eference: Calculation M		i wei as	30 Fed #2H 3722.00ft (Original 3722.00ft (Original Curvature	∖Well Elev)  Well Elev)
ojéct	Lea Co., New M US State Plane North American New Mexico Ea	1983 Datum 1983		System	Datum:		Mean Sea l	_evel	and an every state and a second state of the s
ite Position: rom: Position Uncertainty	NANA 30 Fed Map	#2H, Sec 30,	Northing: Easting: Slot Radius:		625,221 82 ft 704,281.87 ft "	Latitud Longit Grid C			32° 43' 3.561 103° 48' 12.676 0.29 °
Well Well Position Position Uncertainty	NANA 30 Fed +N/-S +E/-W	0.00 ft 0.00 ft 0.00 ft 0.00 ft	Northing: Easting: Wellhead E	levation:	704,2	21.82 ft 31 87 ft 22.00 ft	Latitude: Longitude Ground Le		32° 43' 3.56' 103° 48' 12.676 3,702.00 f
Wellbore Mägnetics	Lateral #1 Model N	Name RF200510	Sample Date 9/29/20	transfer and the second se	eclination (°) 7	.92	Dip Angle (°)	60.66	Field Strength (nT) 49,087
Design Audit Notes:	Design #1		Phase:	PLAN	The second second second	Tie On I	Depth:	0 00	
Version: Vertical Section:	1 2 2 3 2 1	Dep	h From (TVD) (ft) 0.00		N/=S (ft) ).00	+E/-W (ft) 0.00		Direction (°) 179.64	
Plan Sections		zimuth	/ertical Deptn +N/ (ft) (ft		R R	ite	Räte (°/100ft) (°		FO (*) 0.00
Measured Depth (ft)	(°)	(°)	ور ۱۹۹۵ کار ۲۹۰۱ م شخصک کلیک میک میک میک م	0.00	0.00	0 00	0.00	0.00	0.00

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## CUDD Drilling & Measurement Services



Database:       EDM 2003.21 Single User Db         Devon Energy       Devon Energy         Project:       Lea Co., New Mexico (Nad 83)         NANA 30 Fed #2H         Nell:       NANA 30 Fed #2H         Vellbore:       Lateral #1         Design:       Design #1					Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Survey				
	nation (?)	Azimůth (?)	Vertical Depth (ft)	+N/-S (ft)	+E/-W ((t)	Vertical Section (ft)	Dogleg Rate (*/100ft)	Build Rate (*/100tt)	Turn Rate (*/100ft) 0.00
0.00	0.00	0.00	0.00	0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00
1,000.00 <b>Rustier Doi.</b> 1,276.00	0.00	0.00	1,000.00 1,276.00	0.00 0.00	0.00	0.00	0.00	0.00	0 00
Salado Salt 2,463.00	0.00	0.00	2,463.00	0.00	0.00	0.00	0.00	0.00	0.00
Tansil Dol. 2,581.00	0.00	0.00	2,581.00	0.00	0.00	0.00	0.00	0.00	0.00
Yates SS 3,069 00	0.00	0 00	3,069.00	0.00	0.00	0 00	0.00	0.00	0.00
Seven Rivers 3,654.00	0 00	0.00	3,654 00	0 00	0.00	0.00	0.00	0.00	0.00
Queen SS 3,701.00	0.00	0.00	3,701.00	0.00	0.00	0 00	0 00	0.00	0.00
Grayburg 4,436.00	0.00	0.00	4,436.00	0.00	0.00	0.00	0.00	0.00	0 00
Cherry Canyon 5,139.00	0.00	0.00	5,139.00	0.00	0.00	0.00	0.00	0.00	0.00
Brushy Canyon		0.00	6,687.00	0.00	0.00	0 00	0.00	0.00	0.00
6,687 00 First BS LM 7,842.04	0 00	0.00	7,842.04	0.00	0.00	0.00	0.00	0.00	0 00
KOP - Build 10*/1 8,122 01		179.64	8,111.00	-67.05	0.43	67.05	10.00	10.00	0.00
First BS SS 8,742.04	90.00	179.64	8,415.00	-572 94	3 65	572 96	10.00	10.00	0 00
EOC - Hold 1:90 @ 10,118.63	A:179.64 90.00	179.64	8,415.00	-1,949.50	12.42	1,949 54	0.00	0.00	0.00

	and a standard in the set	المحمد محددت ومستحد والمعربية ومحمد والمحمد والمحمد والمحمد والمحمد والمحمد والمحمد والمحمد والمحمد والمحمد	And a second descendent of the second and all a second and and a second and a second and and an a second and a second a secon
Formations Measured Depth (ft)	Vertical Depth (ft)	Name	Dip Dip Direction (۴)
1,000.00	1,000.00	Rustler Dol.	0.00
1,276 00	1,276.00	Salado Salt	0.00
2,463.00	2,463.00	Tansil Dol.	0.00
2,581.00	2,581.00	Yates SS	0.00
3,069.00	3,069 00	Seven Rivers	0.00
3,654.00		Queen SS	0.00
3,701.00		Grayburg	0.00
4,436.00	4,436.00		0.00
5,139.00		•	0.00
6,687.00	6,687.00		0.00
	8,111.00		0.00
8,122.01			0.00

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v.

#### **CUDD Drilling & Measurement Services**





Company: Project: Site:	New Mexico (Na 0 Fed #2H 0 Fed #2H 1		TVD Refer MD Refer North Ref	nce:	Site NANA 30 Fed #2H WELL @ 3722.00ft (Original Well Elev) WELL @ 3722.00ft (Original Well Elev) Grid Minimum Curvature
Plan Annotations. Measured Depth (ft) 7,842.04 8.742.04	Vertical Depth (ft) 7,842.04 8,415.00	Local Coordi -N/-S -(ft) 0.00 -572.94	nates +E/-W (ft) 0.00 3.65	Commerit KOP - Build 10*/100' EOC - Hold I:90 @ A:17	

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C:\Documents and Settings\adamsn\Local Settings\Temporary Internet Files\OLK4A\PBNM Rig layoutsRage 1

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# 13-5/8" x 5,000 psi BOP Stack



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RECEIVED NOV 17 2000 MOBBSOCD

Devon Energy Corporation 20 North Broadway Oklahoma City, Oklahoma 73102-8260

# Hydrogen Sulfide (H<sub>2</sub>S) Contingency Plan

For

Nana "30" Federal # 2H

2310'FSL & 1980' FEL, Sec-30, T-18S R-32E

Lea County NM

Bureau of Land Management RECEIVED

OCT **1 6** 2009

Carlsbad Field Office Carlsbad, N.M.

Devon Energy Corp. Cont Plan. Page 1



## Assumed 100 ppm ROE = 3000° (Radius of Exposure) 100 ppm H2S concentration shall trigger activation of this plan.

#### Escape

Crews shall escape upwind of escaping gas in the event of an emergency release of gas. Escape can be facilitated East on lease road to County Road L126, then North out of the ROE. Crews should then block entrance to the location from the county road so as not to allow anyone traversing into a hazardous area. The blockade should be at a safe distance outside of the ROE There are no homes or buildings in or near the ROE.

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### Assumed 100 ppm ROE = 3000'

## 100 ppm H<sub>2</sub>S concentration shall trigger activation of this plan.

#### **Emergency Procedures**

In the event of a release of gas containing H<sub>2</sub>S, the first responder(s) must

- Isolate the area and prevent entry by other persons into the 100 ppm ROE.
- Evacuate any public places encompassed by the 100 ppm ROE.
- Be equipped with H<sub>2</sub>S monitors and air packs in order to control the release.
- Use the "buddy system" to ensure no injuries occur during the response
- Take precautions to avoid personal injury during this operation.
- Contact operator and/or local officials to aid in operation. See list of phone numbers attached.
- Have received training in the
  - Detection of H<sub>2</sub>S, and
  - Measures for protection against the gas,
  - Equipment used for protection and emergency response.

#### **Ignition of Gas Source**

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO<sub>2</sub>). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever there is an ignition of the gas

Common Name	Chemical Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentration
Hydrogen Sulfide	H <sub>2</sub> S	1.189 Air = 1	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	SO <sub>2</sub>	2.21 Air = 1	2 ppm	N/A	1000 ppm

#### Characteristics of H<sub>2</sub>S and SO<sub>2</sub>

#### **Contacting Authorities**

Devon Energy Corp. personnel must liaison with local and state agencies to ensure a proper response to a major release. Additionally, the OCD must be notified of the release as soon as possible but no later than 4 hours. Agencies will ask for information such as type and volume of release, wind direction, location of release, etc. Be prepared with all information available. The following call list of essential and potential responders has been prepared for use during a release. Devon Energy Corp. Company response must be in coordination with the State of New Mexico's 'Hazardous Materials Emergency Response Plan' (HMER)

## Devon Energy Corp. Company Call List

Artesia (575)	Cellular	Office	<u>Home</u>
Foreman–Roger Hernande	748-5238	748-0169	396-7169
Asst. Foreman – Ernie Du			
Don Mayberry			
Montral Walker			
Engineer – Ron Hays(	405) 464-4214(	405) 552-8150	(405) 359-7015

## Agency Call List

<u>Lea</u>	Ho
<u>County</u>	
<u>(575)</u>	

	Hobbs	
nty	State Police	392-5588
5)	City Police	
	Sheriff's Office	
	Ambulance	
	Fire Department	
	LEPC (Local Emergency Planning Committee)	
	NMOCD	
	US Bureau of Land Management	
	-	

#### <u>Eddy</u> Carlsbad

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(	5	7	5	)

	Cullsbud	
ty	State Police	885-3137
	City Police	885-2111
	Sheriff's Office	
	Ambulance	<b>91</b> 1
	Fire Department	
	LEPC (Local Emergency Planning Committee)	
	US Bureau of Land Management	887-6544
	New Mexico Emergency Response Commission (Santa Fe).	(505)476-9600
	24 HR	
	National Emergency Response Center (Washington, DC)	

### **Emergency Services**

	Boots & Coots IWC	1-800-256-9688 or (281) 931-8884
	Cudd Pressure Control	
	Halliburton	
	B. J. Services	
Give	Flight For Life - Lubbock, TX	
GPS	Aerocare - Lubbock, TX	
position:	Med Flight Air Amb - Albuquerque, NM	
1	Lifeguard Air Med Svc. Albuquerque, NM	

Prepared in conjunction with Wade Rohloff of;



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#### **Operators Representative:**

, **"** 

The Devon Energy Production Company, L.P. representatives responsible for ensuring compliance of the surface use plan are listed below.

Ron Hays	Don Mayberry
Operations Engineer	Superintendent
Devon Energy Production Company, L.P.	Devon Energy Production Company, L.P.
20 North Broadway	Post Office Box 250
Oklahoma City, OK 73102-8260	Artesia, NM 88211-0250
(405) 552-8150 (office)	(505) 748-3371 (office)
(405) 464-4214(cell)	(505) 746-4945 (home)

#### Certification

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access road proposed herein; that I am familiar with the conditions that presently exist; that I have full knowledge of State and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or Devon Energy Production Company, L.P. 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.

I hereby also certify that I, or Devon Energy Production Company, L.P. have made a good faith effort to provide the surface owner with a copy of the Surface Use Plan of Operations and any Conditions of Approval that are attached to the APD.

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Executed this \_28th\_\_\_ day of September , 2009. Printed Name: Norvella Adams Signed Name: Position Title: Sr. Staff Engineering Technician Address: 20 North Broadway, OKC OK 73102 Telephone: (405) 552-8198 Field Representative: Roger Hernandez Address: 6478 Seven Rivers Hwy, Artesia, NM Telephone: 575-748-0169 E-mail: norvella.adams@dvn.com

## PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Devon Energy Prod Co
LEASE NO.:	NM98189
WELL NAME & NO.:	2H Nana 30 Fed
SURFACE HOLE FOOTAGE:	2310' FSL & 1980' FEL
BOTTOM HOLE FOOTAGE	360' FSL & 1980' FEL
LOCATION:	Section 30, T. 18 S., R 32 E., NMPM
COUNTY:	Lea County, New Mexico

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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.

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#### 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)

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.

Ground-level Abandoned Well Marker to avoid raptor perching: Upon the plugging and subsequent abandonment of the well, the well marker will be installed at ground level on a plate containing the pertinent information for the plugged well. For more installation details, contact the Carlsbad Field Office at 575-234-5972.

#### VI. CONSTRUCTION

#### A. NOTIFICATION

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Hobbs Field Station at (575) 393-3612 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. **RESERVE PITS**

The operator has applied for a closed-loop system. The operator shall properly dispose of drilling contents at an authorized disposal site.

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#### **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.

#### 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 Queen 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.

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. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works is located, this does not include the dog house or stairway area.
- 4. The record of the drilling rate along with the 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. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

#### **B.** CASING

Changes to the approved APD casing 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 water and brine flows in the Salado and Artesia formations.

1. The 13-3/8 inch surface casing shall be set at approximately 1050 feet in the Rustler Anhydrite and cemented to the surface. Additional cement may be required as the excess calculates to less than 50%.

- 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.

Formation below the 13-3/8" shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe and the mud weight for the bottom of the hole. Report results to BLM office.

2. The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:

Cement to surface. If cement does not circulate see B.1.a, c-d above.

Centralizers required on horizontal leg, must be type for horizontal service and minimum of one every other joint.

Formation below the 9-5/8" shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe (not the mud weight required to prevent dissolving the salt formation) and the mud weight for the bottom of the hole. Report results to BLM office.

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

a. First stage to DV tool, cement shall:

Cement to circulate. If cement does not circulate, contact the appropriate BLM office before proceeding with second stage cement job. Additional cement may be required as the excess calculates to less than zero.

b. Second stage above DV tool, cement shall:

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

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.

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#### PRESSURE CONTROL

C.

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.

 Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 5000 (5M) psi.
 5M system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.

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.
- Effective November 1, 2008, no variances will be granted on reduced pressure tests on the surface casing and BOP/BOPE. Onshore Order 2 requirements will be in effect.

#### DRILL STEM TEST

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

#### **RGH 110609**

**D**.

## VIII. PRODUCTION (POST DRILLING)

#### WELL STRUCTÚRES & 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**

А.

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

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

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

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

3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the

Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, <u>et seq</u>. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, <u>et seq</u>.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to activity of the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.

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

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.

b.`

(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.

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

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

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

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

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

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

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

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

15. Any cultural and/or paleontological resource (historic or prehistoric site or object)

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

(March 1989)

## 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.

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.

### 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 no primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law(s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the authorized officer.

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

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

	Species		<u>lb/acre</u>
	Plains Bristlegrass		5lbs/A
	Sand Bluestem		5lbs/A
	Little Bluestem		3lbs/A
	Big Bluestem	5	6lbs/A
	Plains Coreopsis	, > <sub>.</sub>	2lbs/A
-	Sand Dropseed	· · · · · · · · · · · · · · · · · · ·	11bs/A
			· · · · · · · · · · · · · · · · · · ·

\*\*Four-winged Saltbush

5lbs/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

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## **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.

Ground-level Abandoned Well Marker to avoid raptor perching: Upon the plugging and subsequent abandonment of the well, the well marker will be installed at ground level on a plate containing the pertinent information for the plugged well. For more installation details, contact the Carlsbad Field Office at 575-234-5972.

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