OCD	-HORR2		-	
Form 3160-3 (April 2004) OCT 0 8 2008			OMB No.	PPROVED 1004-0137 urch 31, 2007
UNITED STATES	5. Lease Serial No LC 063645			
BUREAU OF LAND MAN			6. If Indian, Allotee	
APPLICATION FOR PERMIT TO	DRILL OR REENTER			
la. Type of work. DRILL REENT	ER`		7 If Unit or CA Agree	ment, Name and No.
1b. Type of Well ✓O₁l Well Gas Well Other	. Single Zone Mult.	ple Zone	8. Lease Name and W Great Bear Par	
Name of Operator Devon Energy Production Company, I			9. API Well No.	4-3920
3a. Address 20 North Broadway Oklahoma City, Oklahoma 73103-8260	3b. Phone No. (include area code) (405) 552-8198		10. Field and Pool, or E. Bone Spring	xploratory 2/6
4 Location of Well (Report location clearly and in accordance with a	my State requirements.*)		11 Sec, T.R.M. or Bl	and Survey or Area
At surface 1680 FNL & 1980 FEL Call At proposed prod. zone 1680 FNL & 1980 FEL	pitan Controlled Water	Basin	Sec 24 T18S R3	3E
14 Distance in miles and direction from nearest town or post office* Approximately 12 miles southeast of Maljamar, NM			12. County or Parish Lea	13. State NM
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 660' and 360'	16. No of acres in lease 1074.69	17 Spacir	ng Unit dedicated to this w	ell
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 360'	19 Proposed Depth 10,100'	20. BLM/	BIA Bond No on file	
21 Elevations (Show whether DF, KDB, RT, GL, etc.) 3921' GL	22 Approximate date work will st 09/30/2008	art*	23. Estimated duration 30 days	
	24. Attachments			
The following, completed in accordance with the requirements of Onshe	ore Oil and Gas Order No 1, shall be	attached to th	is form:	
 Well plat certified by a registered surveyor. A Drilling Plan 	4. Bond to cover Item 20 above)		ns unless covered by an e	xisting bond on file (see
3. A Surface Use Plan (if the location is on National Forest System SUPO shall be filed with the appropriate Forest Service Office)		specific inf	ormation and/or plans as i	nay be required by the
25. Signature	Name (Printed/Typed) Norvella Adams		I	Oate 08/12/2008
Title Senior Staff Engineering Technician				
Assembly Country) //Down Dollars	Nome (Printed/Timed)			Date

/s/ Don Peterson

FIELD MANAGER

Is Don Peterson

~°ÖCT − 3 2008

Office

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

APPROVAL FOR TWO YEARS conduct operations thereon.
Conditions of approval, if any, are attached.

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.

*(Instructions on page 2)

SEE ATTACHED FOR CONDITIONS OF APPROVAL



APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED

· ALLEWE

0 C.T. 0, 8, 2008

Form 3160-5

(August 1999)

DERARTMENT OF THE INTERIOR

BUREAU OF AND MANAGEMENT

OF AND MANAGEMENT

OF AND MANAGEMENT

OCD-HOBSS ... FORM APROVED 2008 NO. 1004-0135 EXPIRES: NOVEMBER 30, 2000

A PA SANDER NOW	ICES AND REPORTS ON WELLS	5. Lease Serial No
	n for proposals to drill or to re-enter an	LC-063645
	e Form 3160-3 (APD) for such proposals	6 If Indian, Allottee or Tribe Name
SU	JBMIT IN TRIPLICATE	7 Unit or CA Agreement Name and No.
a. Type of Well 💟 Oil Well 🔲 Gas	s Well Other	
-		8 Well Name and No
. Name of Operator		Great Bear Park 24 Fed 1
DEVON ENERGY PRODUCT	TION COMPANY, LP	9. API Well No.
. Address and Telephone No.		
20 North Broadway, Ste 150	00, Oklahoma City, OK 73102 405-552-8198	10. Field and Pool, or Exploratory
` ,	rly and in accordance with Federal requirements)*	Bone Spring
1680' FNL & 1980' FEL Sec	c 24 T18S R33E, Unit G	12. County or Parish 13. State
		Lea NM
	APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REP	ORT, OR OTHER DATA
TYPE OS SUBMISSION	TYPE OF ACT	· · · · · · · · · · · · · · · · · · ·
☑ Notice of Intent		uction (Start/Resume) Water Shut-Off
,,	,	mation Well Integrity mplete Other
Subsequent Report		porarily Abandon
Final Abandonment Notice	, ,	or Disposal
3. Describe Proposed or Completed Operations (Cl	learly state all pertinent details, and give pertinent dates, including estimated date of start	ng any proposed work and approximate duration thereof if the proposal
eepen directionally or recomplete honzontally give su	ubsurface location and measured and true vertical depths of all pertinent markers and zon ent reports shall be filed within 30 days following completion of the involved operations. If	the processor results in a multiple completion or recompletion in a new
	ent reports shall be filed within 30 days following completion of the involved operations in been completed. Final Abandonment Notices shall be filed only after all requirement, incli	
etermined that the site is ready for final inspection)		
Novem Energy Production Co. 1 D room	ectfully requests approval to move the proposed access and ha	we it come in from the west to avoid archaeological
ites. Revised plats are attached.	ectiony requests approval to move the proposed access and he	ive it come in nom the west to avoid arenaeological
ntes. Nevised plats are attached.		
	•	
A. I bazakii sodilii bay ba Jasagga ist		
4. Thereby certify that the foregoing is t		
$\langle N \rangle \sim 000$	Name Norvella Adams	Date 42 San 59
4. Thereby certify that the foregoing is to Signed		Date 16-Sep-08.
Signed A O	Name Norvella Adams Title Sr. Staff Eng. Tech	0.07
$\langle N \rangle \sim 000$	Name Norvella Adams Title Sr. Staff Eng. Tech	0.07



DISTRICT I OCT 0 8 2008

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102 Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

DISTRICT III

1220 S. St. Francis Dr., Santa Fe, NM 87505

DISTRICT II

DISTRICT IV

Aztec, NM 87410

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, New Mexico 87505

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-	Pool Code 2/650	E-K.	Bone Spring	
Property Code	Prope	Well	Number	
	GREAT BEAR PA	RK "24" FED	. 1	
OGRID No.		itor Name		vation
6137	DEVON ENERGY PRO	DUCTION COMPANY LP	39:	21'

Surface Location

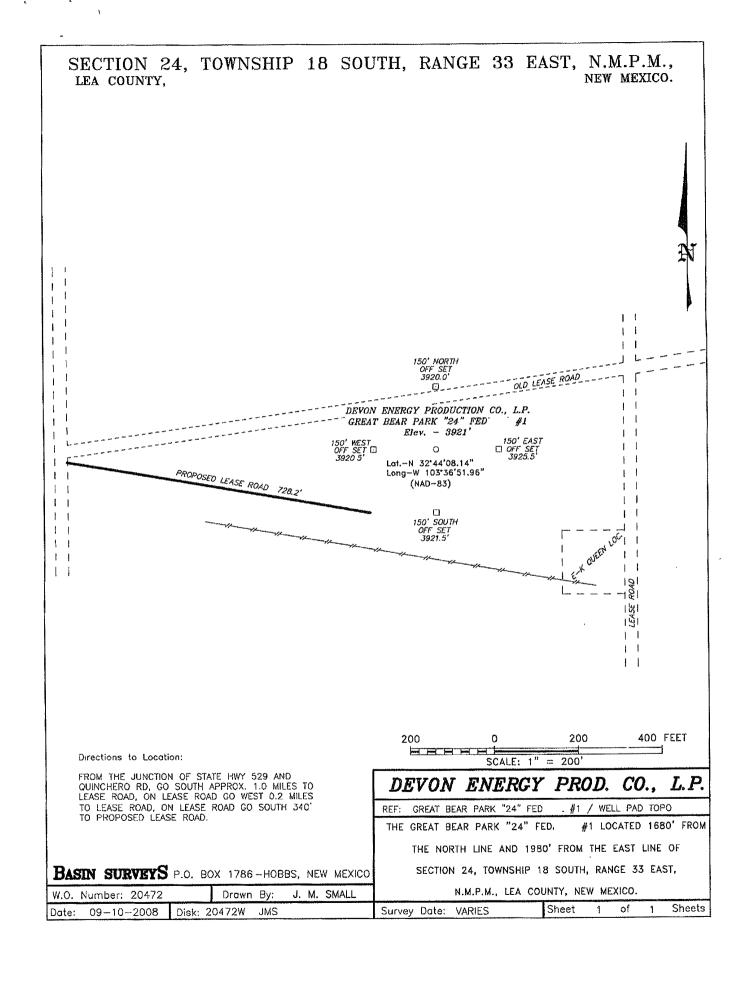
UL or let No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
G	24	18 S	33 E		1680	NORTH	1980	EAST	LEA	

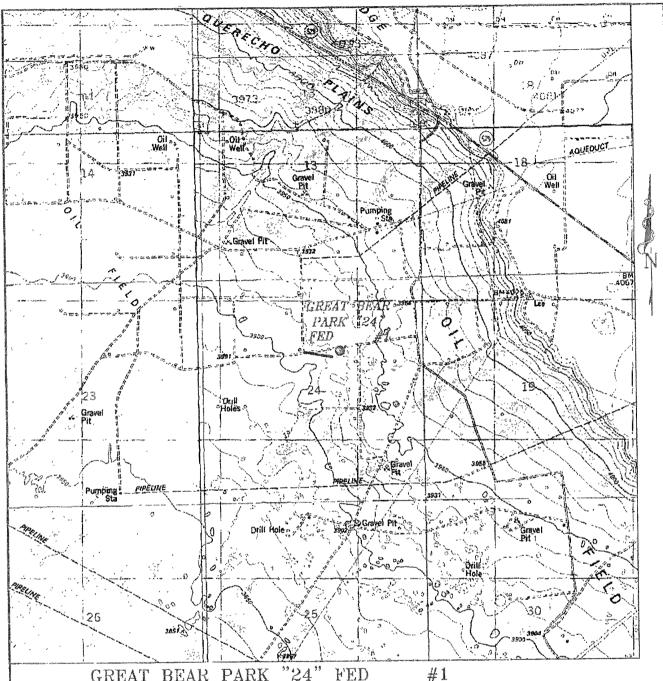
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
						,			
Dedicated Acr	Dedicated Acres Joint or Infill Consolidation Code Order No.								
40									
ŀ	1	1		i					i

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED

	VIA INON-BIAN	DARD UNIT HAS BEEN	WALLOOPED DI III	O DIVIDIOIT
	SURFACE LOCATION Lat - N32'44'08.14" Long - W103'36'51.96" SPC - N.: 632091.070 E.: 762393.105 (NAD-83)		1980'	OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working inferest or indeased mineral interest in the land including the proposed bottom hole location pursuant to a contract with an owner of such a mineral or working interest, or to a compulsory pooling order heretofore entered by the division. 9/16/08 Signature Date Norvella Adams Printed Name SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervison and that the same is true and correct to the best of my belief. FEBRUARY 2008 Date Surveys and the same is true and correct to the best of my belief. FEBRUARY 2008 Certificate No. Gary L. Jones 7977
L	<u> </u>	1		BASIN SURVEYS





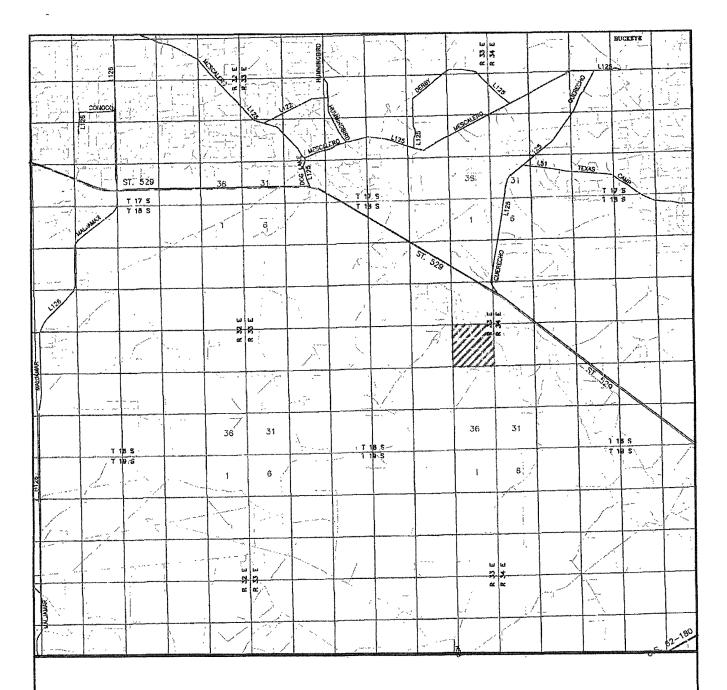
GREAT BEAR PARK "24" FED #1
Located at 1680' FNL AND 1980' FEL
Section 24, Township 18 South, Range 33 East,
N.M.P.M., Eddy County, New Mexico.



P.O. Box 1786 1120 N. West County Rd. Hobbs, New Mexico 88241 (575) 393-7316 — Office (575) 392-2206 — Fox basinsurveys.com

-	W.O. Number:	JMS	20472
	Survey Date:	VAR	ES
	Scale: 1" = 2	000'	
	Date: 09-10-	-2008	

DEVON ENERGY PROD. CO., L.P.



GREAT BEAR PARK "24" FED #1
Located at 1680' FNL AND 1980' FEL
Section 24, Township 18 South, Range 33 East,
N.M.P.M., Eddy County, New Mexico.



P:O. Box 1786 1120 N. West County Rd. Hobbs, New Mexico 88241 (575) 393-7316 - Office (575) 392-2206 - Fax basinsurveys.com

	W.O. Number: JMS 20472
***************************************	Survey Date: VARIES
	Scale: 1" = 2 MILES
	Date: 09-10-2008

DEVON ENERGY PROD. CO., L.P.

RECEIP

Form 3160-5 (August 1999) C TO 8 2008 UNITED STATES (August 1999) C TO 8 2008 UNITED S

FORM APROVED OMB NO. 1004-0135
OCD-HORRE EXPIRES: NOVEMBER 30, 2000
5 Lease Serial No.

Do na usetuis form	LC-063645				
The state of the s	n to proposals to drill or to re e Form/3160-3 (APD) tor suc	n proposals		6 If Indian, Allottee	or Tribe Name
SL	JBMIT IN TRIPLICATE			7 Unit or CA Agree	ement Name and No
1a. Type of Well 🔽 Oil Well 🔲 Ga	s Well 🗌 Other			8 Well Name and I	No
Name of Operator					Bear Park 24 Fed 1
DEVON ENERGY PRODUCT	TON COMPANY, LP			9. API Well No.	Deal Laik 24 Led 1
Address and Telephone No.	······································				
20 North Broadway, Ste 150	0, Oklahoma City, OK 731	02 405-552-8198		10. Field and Pool,	, or Exploratory
4. Location of Well (Report location clear	ly and in accordance with Fe	deral requirements)*			Bone Spring
1680' FNL & 1980' FEL Sec	c 24 T18S R33E, Unit G			12 County or Paris	sh 13. State
				Lea	NM
CHECK A	APPROPRIATE BOX(s) TO	NDICATE NATURE OF NOTICE	F ACTION	, OR OTHER DATA	
	Acidıze	☐ Deepen ☐		n (Start/Resume)	Water Shut-Off
✓ Notice of Intent	Alter Casing	Fracture Treat	Reclamati		Well Integrity
Subsequent Report	Casing Repair	New Construction	Recomple		Other
Final Abandonment Notice	✓ Change Plans	Plug and Abandon	- '	rily Abandon	
13 Describe Proposed or Completed Operations (Ci	Convert to Injection		Water Dis	<u>' </u>	oximate duration thereof If the proposal
deepen directionally or recomplete honzontally, give su	bsurface location and measured and	true vertical depths of all pertinent markers	and zones A	ttach the Bond under whic	h the work will be performed or provide
the Bond No on file with BLM/BIA Required subseque interval, a Form 3160-4 shall be filed once testing has t					
determined that the site is ready for final inspection)					
Devon Energy Production Company, LI	P respectfully requests app	proval to change our orginal pla	ans to use	an earthen pit to a	closed loop system.
					-
					,
		•			
14 I hereby certify that the foregoing is tr	rue and correct				,
Signe	Nam Title		1	· Date	29-Sep-08
(This space for Federal or State Office us	e)				-
/s/ Don	Th - 4	IFI D MANAGER		OC1	– 3 2008
Approved by Conditions of approval, if any.	1111	ILLD MUNICIN		Date	· · · · · · · · · · · · · · · · · · ·
•					
tts jurisdiction	berson knowingly and williany to make	any department or agency of the Office St	ates arry raise,	nonnous or traudulent sta	tements or representations to any matter wit
no juniouronom					

DISTRICT I 1625 N. French Dr., Hobbs, NM 88240

DISTRICT II
1301 W. Grand Avenue, Artspin, NM 58240 8 2008

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised October 12, 2005

Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

DISTRICT III

1000 Rio Brazos Rd. Asted NN 87410

DISTRICT IV

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, New Mexico 87505

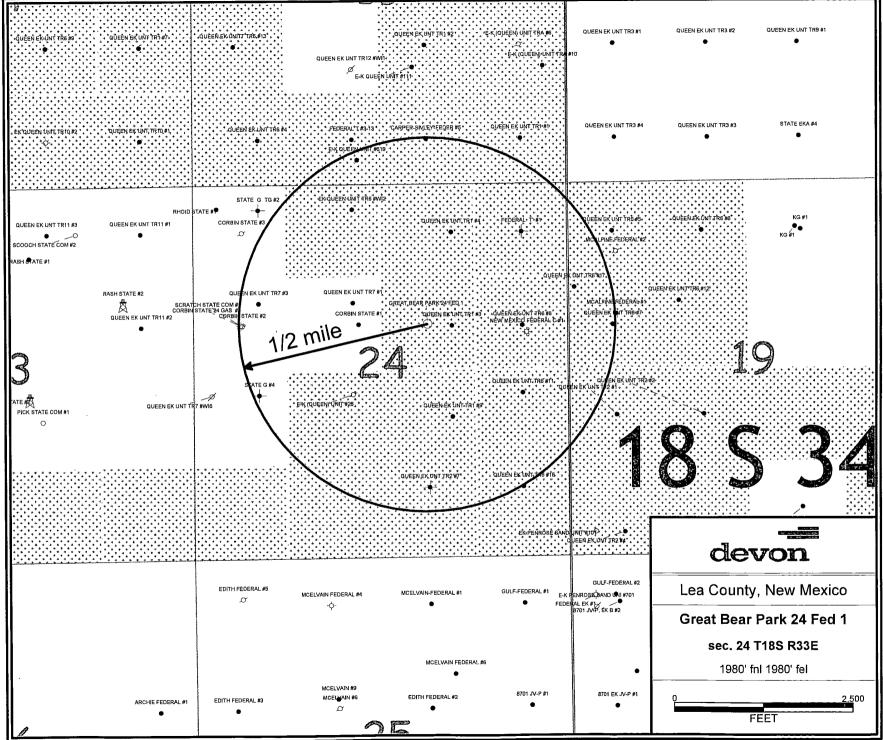
☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

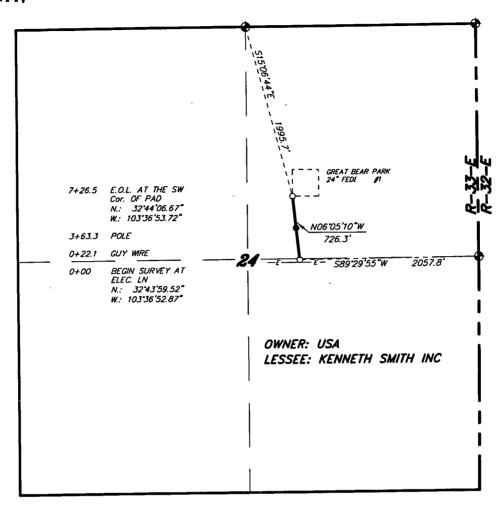
API Number		1	Pool Code		Pool Name				
					İ		Bone	Spring	
Property (Code	Γ		•	Property Nam	ie		Well No	ımber
			G	REAT BE	EAR PARK "	24" FED		1	
ogrid no	D.				Operator Nam	ie	1	Eleva	
6137			DEVON	I ENERC	Y PRODUCT	ION COMPANY	LP	392	1'
				·	Surface Loc	ation		,	
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	24	18 S	33 E		1680	NORTH	1980	EAST	LEA
			Bottom	Hole Loc	cation If Diffe	rent From Sur	face		
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acre	s Joint o	r Infill C	onsolidation	Code Or	der No.			1	
40									

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

011 II I		
SURFACE LOCATION Lat = N32*44'08.14" Long = W103*36'51.96 SPC = E.: 762393.105 (NAD-83)	1980	OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling agreement or a compulsory pooling order heretofore entered by the division. 8/12/08 Signature Date Norvella Adams Printed Name SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervison and that the same is true and correct to the best of my bettef. FEBRUARY 27, 2008 Date Surveys and bettef from field notes of actual surveys made by me or under my supervison and that the same is true and correct to the best of my bettef.
1	<u> </u>	Basin surveyS



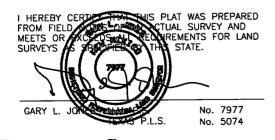
SECTION 24, TOWNSHIP 18 SOUTH, RANGE 33 EAST, N.M.P.M., NEW MEXICO. LEA COUNTY,



LEGAL DESCRIPTION

A STRIP OF LAND 30.0 FEET WIDE, LOCATED IN SECTION 24, TOWNSHIP 18 SOUTH, RANGE 33 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO AND BEING 15.0 FEET LEFT AND RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY.

SECTION 24 = 726.5 FEET = 44.03 RODS = 0.14 MILES = 0.50 ACRES



BASIN SURVEYS P.O. BOX 1786-HOBBS, NEW MEXICO

J. M. SMALL Drawn By: W.O. Number: 19252 Date: 02-28-2008

Disk: JMS 19252P

1000 2000 FEET 1000 0

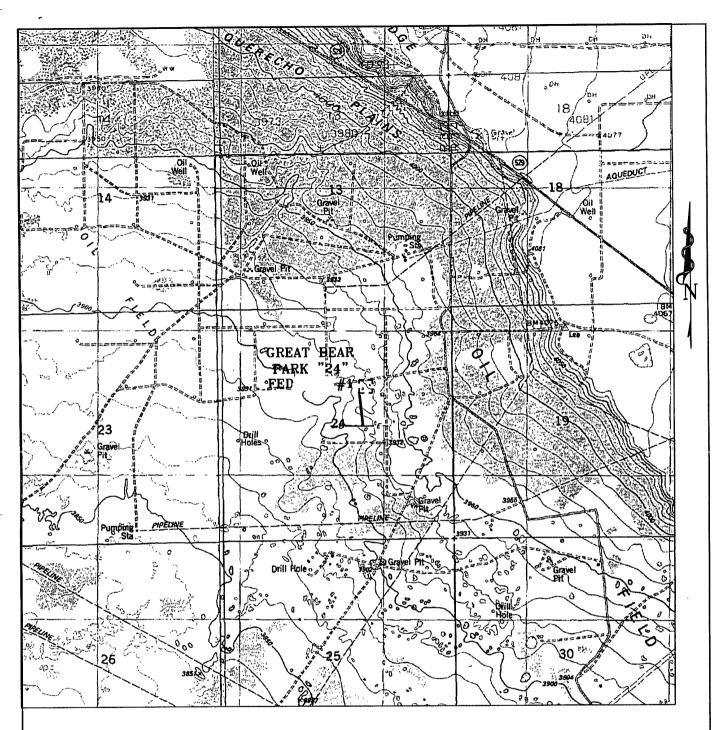
ENERGY PROD. CO.. L.P. **DEVON**

#1

REF: PROPOSED ELECTRIC LINE TO THE GREAT BEAR PARK "24" FED.

AN ELECTRIC LINE CROSSING USA LAND IN SECTION 24, TOWNSHIP 18 SOUTH, RANGE 33 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO.

Sheets Sheet of Survey Date: 02-27-2008



PROPOSED ELECTRIC LINE TO THE GREAT BEAR PARK "24" FED. #1 Section 24, Township 18 South, Range 33 East, N.M.P.M., Eddy County, New Mexico.



P.O. Box 1786 1120 N. West County Rd. Hobbs, New Mexico 88241 (505) 393-7316 - Office (505) 392-3074 - Fax basinsurveys.com

l	5 TO 1020211
AND A	Survey Date: 02-27-2008
	Scale: 1" = 2000'
ľ	Date: 02-28-2008
_	

W.O. Number: JMS 19252TT

DEVON ENERGY PROD. CO., L.P.

DRILLING PROGRAM

Devon Energy Production Company, LP

Great Bear Park 24 Fed 1

Surface Location: 1680' FNL & 1980' FEL, Unit G, Sec 24 T18S R33E, Lea, NM Bottom Hole Location: 1680' FNL & 1980' FEL, Unit G, Sec 24 T18S R33E, Lea, NM

Geologic Name of Surface Formation 1.

a. Quaternary Alluvium

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

a.	Quaternary	19'	Fresh Water
b.	Rustler	1639'	Fresh Water
c.	Salado Salt	1895'	
d.	Tansil Dol.	3011'	Oil
e.	Yates Ss	3123'	Oil
f.	Seven Rivers	3623'	Oil
g.	Queen Ss	4353'	Oil
h.	Grayburg	4414'	Oil
i.	San Andres	5113'	Oil
j.	Cherry Canyon Ss	5207'	Oil
k.	Brushy Canyon Ss	6427'	Oil
1.	1 st Bone Spring Ls	7311'	Oil
m.	1 st Bone Spring Ss	8670'	Oil
n.	2 nd Bone Spring Ls	8950'	Oil
o.	2 nd Bone Spring Ss	9260'	Oil
p.	3 rd Bone Spring Ls	9706'	Oil
q.	3 rd Bone Spring Ss	10,030	Oil
٦,	5 Done Spring St	10,020	9

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 8 5/8" casing at 3050' 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.

3. **Casing Program:**

<u>Hole</u>	<u>Hole</u>	$\underline{\mathbf{OD}}$	Casing	<u>Weight</u>	<u>Collar</u>	<u>Grade</u>
<u>Size</u>	<u>Interval</u>	Csg	<u>Interval</u>			
/\14 ³ / ₄ "	60' – 1650'	$1\overline{1}^{\frac{3}{4}}$ "	0'- 1650'	42#	ST&C	H-40
11"	1650'- 3050'	8 5/8"	0'- 3050'	32#	LT&C	K-55
7 7/8"	3050'-10,100'	5 1/2"	0-10,100'	17#	LT&C	N-80

The 5 ½", 17#, LT&C, N-80 production casing was on one of our other location but was neither cemented nor produced through and should be considered "new" pipe.

Design Parameter Factors:

Casing Size	Collapse Design	Burst Design	Tension Design
	Factor	Factor	Factor
11 3/4"	2.09	2.98	6.53
8 5/8"	1.6	2.4	4.98
5 ½"	1.33	2.06	2.04

4. Cement Program: (Note yields: and dy tool depths if multiple stages)

			cius, and uv tool ueptus ii multiple stages)
a.	11 3/4"	Surface	Lead with 570 sx (35:65) Poz Premium Plus C + 2% $CaCl_2 + \frac{1}{4}$ lbs/sx Celloflake, and 6% Bentonite; 12.8 ppg, 1.97 cf/sx, 9.76 gps. Tail with 250 sx Premium Plus C + 2% $CaCl_2 + \frac{1}{4}$ lbs/sx Celloflake; 14.8 ppg, 1.35 cf/sx, 6.35 gps. $TOC = 0$.
b.	8 5/8"	Intermediate	Lead with 480 sx (35:65) Poz Premium Plus C + 2% CaCl ₂ + $\frac{1}{4}$ lbs/sx Cello Flake + 6% Bentonite; 12.5 ppg, 1.97 cf/sx, 10.75 gps. Tail with 300 sx Premium Plus C + $\frac{1}{4}$ lbs/sx Cello Flake; 14.8 ppg, 1.35 cf/sx, 6.35 gps. TOC = 0.
c.	5 1/2"	Production	Stage 1: 465 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; 13.30 ppg, 1.56 cf/sx, 7.55 gps Stage 2: Lead with 730 sx (35:65) Poz Premium Plus C + ½ #/sx Cello Flake + 6% Bentonite; 12.50 ppg, 1.94 cf/sx, 10.65 pgs. Tail with 150 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 = 2,550. DV tool set at 6,950'.

The above cement volumes could be revised pending the caliper measurement from the open hole logs. All casing is new and API approved.

5. Pressure Control Equipment:

The blowout preventor equipment (BOP) shown in Exhibit #1 will consist of a (5 K system) double ram type (5000 psi WP) preventor and a bag-type (Hydril) preventor (5000 psi WP) and rotating head. Both units will be hydraulically operated and the ram type preventor will be equipped with blind rams on top and 4 ½" drill pipe rams on bottom. The 5K annular BOP will be nippled up on the 11" casing and tested to 1000 psi high and 250 low with the rig pumps. The 5K BOP consisting of 5K annular, blind rams, and pipe rams will be nippled up on the 8 5/8" and tested as per Onshore Order #2.

Pipe rams will be operated and checked each 24-hour period and each time the drill pipe is out of the hole. These functional tests will be documented on the daily driller's log. A 2" kill line and 4" choke line will be incorporated in the drilling spool below the ram-type BOP. Other accessory BOP equipment will include a Kelly cock, floor safety valve, choke lines and choke manifold having 5000 psi WP rating.

6. Proposed Mud Circulation System

Depth	Mud Wt.	<u>Visc</u>	Fluid Loss	Type System
60' – 1650'	9.4	30	NC	Fresh Water
1650'-3050'	10.0	30	NC	Brine
3050'-10,100'	9	29	NC	Fresh Water

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

7. Auxiliary Well Control and Monitoring Equipment:

- 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 8 5/8" casing shoe until the 5 1/2" casing is cemented. Breathing equipment will be on location upon drilling the 8 5/8" shoe until total depth is reached.

8. Logging, Coring, and Testing Program:

- 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:
 - i. Total Depth to Intermediate Casing Dual Laterolog-Micro Laterolog with SP and Gamma Ray. Compensated Neutron Z Density log with Gamma Ray and Caliper.
 - ii. Total Depth to Surface Compensated Neutron with Gamma Ray
 - iii. No coring program is planned
 - iv. Additional testing will be initiated subsequent to setting the 5 ½" production casing. Specific intervals will be targeted based on log evaluation, geological sample shows and drill stem tests.

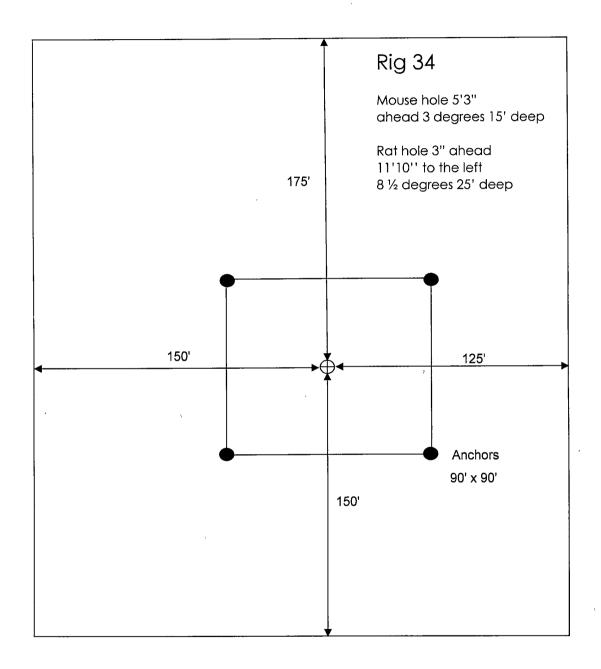
9. Potential Hazards:

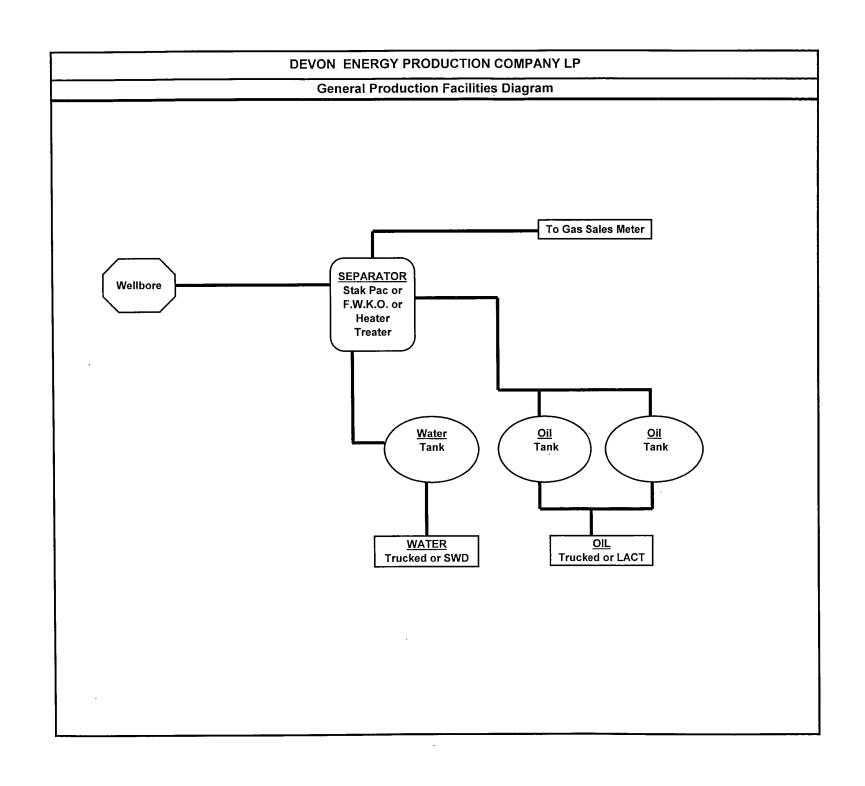
a. No abnormal pressures or temperatures are expected. A H2S contingency plan will be provided. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. Estimated BHP 4500 psi and Estimated BHT 165°.

10. Anticipated Starting Date and Duration of Operations:

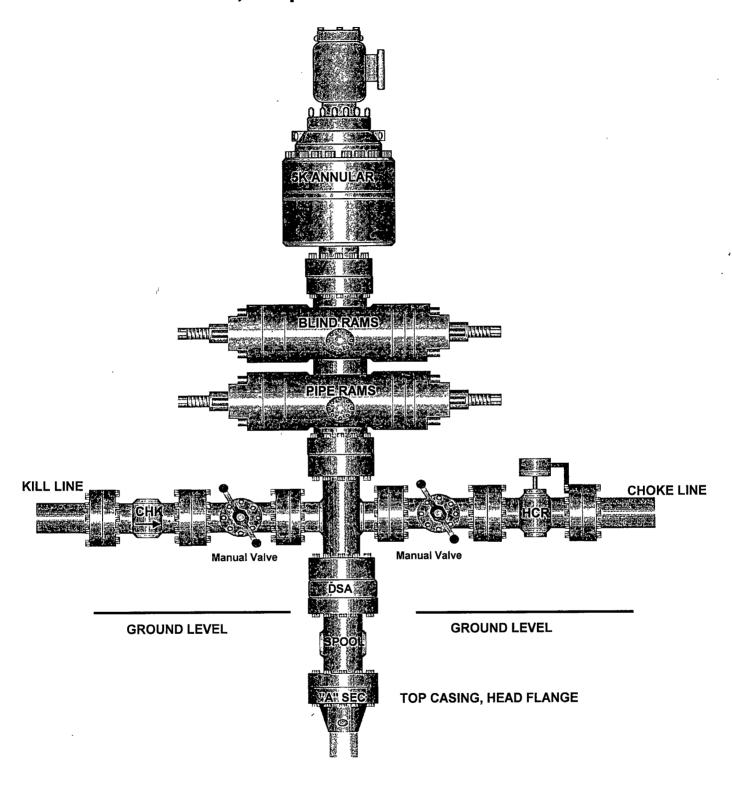
a. Road and location construction will begin after the BLM has approved the APD. Anticipated spud date will be as soon after BLM approval and as soon as a rig will be available. Move in operations and drilling is expected to take 30 days. If production casing is run then an additional 30 days will be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

BASIC ENERGY SERVICES - RIGS 31, 32 & 34

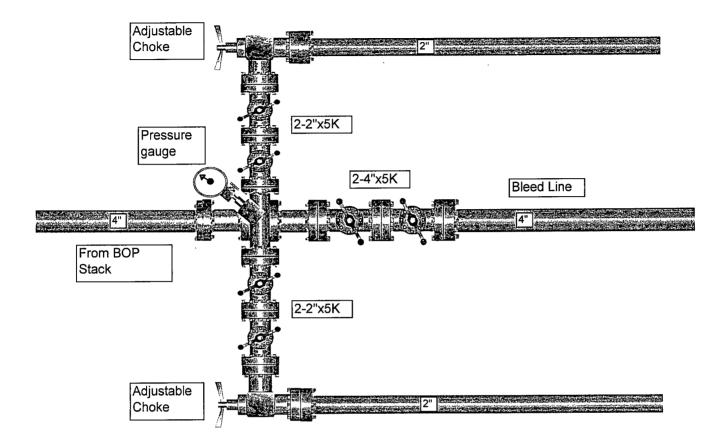




11" x 5,000 psi BOP Stack



5,000 PSI CHOKE MANIFOLD





BUREAU OF LAND MGMT CARLSON 28 AM III: 05

RECEIVED

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

Hydrogen Sulfide (H₂S) Contingency Plan

For

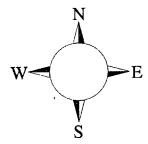
Great Bear Park "24" Fed # 1

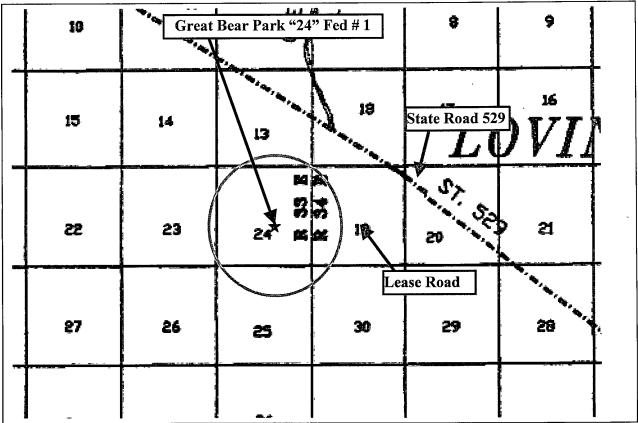
1680'FNL & 1980' FEL, Sec-24, T-18S R-33E

Lea County NM

Great Bear Park "24" Fed #1

This is an open drilling site. H_2S monitoring equipment and emergency response equipment will be used within 500' of zones known to contain H_2S , including warning signs, wind indicators and H_2S monitor.





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 lease road to State Road 529. Crews should then block entrance to the location from the lease 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.

Emergency Procedures

In the case of a release of gas containing H₂S, the first responder(s) must isolate the area and prevent entry by other persons into the 100 ppm ROE. Additionally the first responder(s) must evacuate any public places encompassed by the 100 ppm ROE. First responder(s) must take care not to injure themselves during this operation. Company and/or local officials must be contacted to aid in this operation. Evacuation of the public should be beyond the 100 ppm ROE.

All responders must have training in the detection of H_2S , measures for protection against the gas, equipment used for protection and emergency response. Additionally, responders must be equipped with H_2S monitors and air packs in order to control the release. Use the "buddy system' to ensure no injuries during the 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 (SO₂). 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

Characteristics of H₂S and SO₂

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

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 (505)	Cellular	Office	Home	
	Foreman – Roger Hernandez	748-5238	748-0169	396-7169	
	Asst. Foreman – Ernie Duran	n. 513-1768	748-0191	746-4589	
	Don Mayberry	748-5235	748-0164	746-4945	
	Linda Berryman	513-0534	748-0177	395-3020	
	Bill Greenlees	(405) 203-7778 .	(405) 552-8194.	(405) 324-999	4
Ag	gency Call List				
Lea	Hobbs			_	
Cour				392	-5588
(505)				397	-9265
	Sheriff's Office			393	-2515
	Ambulance			911	
	Fire Department			397	'-9308
	LEPC (Local Emerg	gency Planning Cor	mmittee)	393	-2870
	NMOCD	,		393	-6161
	US Bureau of Land	Management		393	-3612
<u>Eddy</u>	•			0.0.5	. 2127
Cour					
<u>(505)</u>					
		•••••			
	Ambulance			911	. 0111
	Fire Department				7.2700
	LEPC (Local En	nergency Plannin	g Committee)	88/	-3/98
	US Bureau of La	and Management		887	-6544
	New Mexico En	nergency Respons	se Commission (Santa Fe) (503	5)476-9600
	24 HR			(505	5) 827-9126
	National Emerge	ency Response C	enter (Washingto	on, DC) (800	0) 424-8802
	Emergency Services	·			
	Boots & Coots IWC		1-800	-256-9688 or (2	81) 931-8884
	Cudd Pressure Contr	ol	(915)) 699-0139 or (9	15) 563-3356
	Halliburton		(505)	746-2757	
	B. J. Services		(505)	746-3569	
Give	Flight For Life - Lub	hock TX		(80	6) 743-9911
GPS	Aerocare - Lubbock,	TX		(80	6) 747-8923
posit					
posit	Lifeguard Air Med				

Prepared in conjunction with Wade Rohloff of;



SURFACE USE PLAN

Devon Energy Production Company, LP

Great Bear Park 24 Fed 1

Surface Location: 1680' FNL & 1980' FEL, Unit G, Sec 24 T18S R33E, Lea, NM Bottom Hole Location: 1680' FNL & 1980' FEL, Unit G, Sec 24 T18S R33E, Lea, NM

1. Existing Roads:

- a. The well site and elevation plat for the proposed well are reflected on the well site layout; Form C-102. The well was staked by Basin Surveys.
- b. All roads into the location are depicted on Exhibit 3.
- c. Directions to Location: From the junction of State Hwy 529 and Quinchero Rd, go south approx. 1.0 miles to lease road, on lease road go west 0.2 miles to lease road, on lease road go south 340' to proposed lease road.

2. New or Reconstructed Access Roads:

- a. The well site layout, Form C-102 shows the existing trail road.
- b. The maximum width of the road will be 15'. It will be crowned and made of 6" of rolled and compacted caliche. Water will be deflected, as necessary, to avoid accumulation and prevent surface erosion.
- c. Surface material will be native caliche. This material will be obtained from a BLM approved pit nearest in proximity to the location. The average grade will be approximately 1%.
- d. No cattle guards, grates or fence cuts will be required. No turnouts are planned.

3. Location of Existing Wells:

One Mile Radius Plat shows all existing and proposed wells within a one-mile radius of the proposed location. See attached plat.

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

- a. In the event the well is found productive, a tank battery would be utilized and the necessary production equipment will be installed at the well site. See Production Facilities Layout diagram.
- b. If necessary, the well will be operated by means of an electric prime mover. Electric power poles will be set along side of the access road.
- c. We intend to lay flowlines from the Great Bear Park 24 Fed 1 to the tank battery. All flow lines will adhere to API standards.
- d. If the well is productive, rehabilitation plans are as follows:
 - i. The reserve pit will be back-filled after the contents of the pit are dry (within 120 days after completion, weather permitting).
 - ii. The original topsoil from the well site will be returned to the location. The drill site will then be contoured as close as possible to the original state.

5. Location and Types of Water Supply:

This location will be drilled using a combination of water mud systems (outlined in the Drilling Program). The water will be obtained from commercial water stations in the area and hauled to location by transport truck using the existing and proposed roads shown in the C-102. On occasion, water will be obtained from a pre-existing water well, running a pump directly to the drill rig. In these cases where a poly pipeline is used to transport water for drilling purposes, proper authorizations will be secured. If a poly pipeline is used, the size, distance, and map showing route will be provided to the BLM via sundry notice.

6. Construction Materials:

All caliche utilized for the drilling pad and proposed access road will be obtained from an existing BLM approved pit or from prevailing deposits found under the location. All roads will be constructed of 6" rolled and compacted caliche. Will use BLM recommended use of extra caliche from other locations close by for roads, if available.

7. Methods of Handling Waste Material:

a. Drill cuttings will be disposed of in the reserve pits.

- b. All trash, junk and other waste material will be contained in trash cages or trash bins to prevent scattering. When the job is completed all contents will be removed and disposed of in an approved sanitary landfill.
- c. The supplier, including broken sacks, will pick up salts remaining after completion of well.
- d. A Porto-john will be provided for the rig crews. This equipment will be properly maintained during the drilling and completion operations and will be removed when all operations are complete.
- e. Remaining drilling fluids will be allowed to evaporate in the reserve pits until the pits are dry enough to be broken out for further drying. If the drilling fluids do not evaporate in a reasonable time they will be hauled off by transports to a state approved disposal site. Later pits will be broken out to speed dry. Water produced during completion will be put in reserve pits. Oil and condensate produced will be put in a storage tank and sold.
- f. Disposal of fluids to be transported by the following companies:
 - i. American Production Service Inc, Odessa TX
 - ii. Gandy Corporation, Lovington NM
 - iii. I & W Inc, Loco Hill NM
 - iv. Jims Water Service of Co Inc, Denver CO
- 8. Ancillary Facilities: No campsite or other facilities will be constructed as a result of this well.

9. Well Site Layout

- a. Exhibit D shows the proposed well site layout with dimensions of the pad layout.
- b. This exhibit indicated proposed location of reserve and sump pits and living facilities.
- c. Mud pits in the active circulating system will be steel pits & the reserve pit will be lined.
- d. If needed, the reserve pit is to be lined with polyethylene. The pit liner will be 6 mils thick. Pit liner will extend a minimum 2'00" over the reserve pits dikes where the liner will be anchored down.

- e. The reserve pit will be fenced on three sides with four strands of barbed wire during drilling and completion phases. The fourth side will be fenced after all drilling operations have ceased to preclude endangering wildlife.
- f. If a pit or closed loop system is utilized, Devon will comply with the NMOCD requirements 19.15.17 and submit a form C-144 CLEZ to the appropriate NMOCD District Office.

10. Plans for Surface Reclamation:

- a. After concluding the drilling and/or completion operations, if the well is found non-commercial, the caliche will be removed from the pad and transported to the original caliche pit or used for other drilling locations. The road will be reclaimed as directed by the BLM. The reserve pit area will be broken out and leveled after drying to a condition where these efforts are feasible. The original top soil will again be returned to the pad and contoured, as close as possible, to the original topography. We will close the pits per OCD compliance regulations.
- b. The pit lining will be buried or hauled away in order to return the location and road to their pristine nature. All pits will be filled and location leveled, weather permitting, within 120 days after abandonment.
- c. The location and road will be reclaimed as recommended by the BLM.
- d. If the well is a producer, the reserve pit fence will be torn down after the pit contents have dried. The reserve pit and those areas of the location not essential to production facilities will be reclaimed and seeded per BLM requirements.
- e. If the well is deemed commercially productive, the reserve pit will be restored as described in 10(A) within 120 days subsequent to the completion date. Caliche from areas of the pad site not required for operations will be reclaimed. The original top soil will be returned to the area of the drill pad not necessary to operate the well. These unused areas of the drill pad will be contoured, as close as possible, to match the original topography.

11. Surface Ownership

- a. The surface is owned by the US Government and is administered by the Bureau of Land Management. The surface is multiple use with the primary uses of the region for the grazing of livestock and the production of oil and gas.
- b. The proposed road routes and the surface location will be restored as directed by the BLM.

12. Other Information:

- a. The area surrounding the well site is grassland. The topsoil is very sandy in nature. The vegetation is moderately sparse with native prairie grass, sagebrush, yucca and miscellaneous weeds. No wildlife was observed but it is likely that deer, rabbits, coyotes, and rodents traverse the area.
- b. There is no permanent or live water in the general proximity of the location.
- c. There are no dwellings within 2 miles of location.
- d. A Cultural Resources Examination will be completed by Southern New Mexico Archaeological Services, Inc. and forwarded to the BLM office in Carlsbad, New Mexico.

13. Bond Coverage:

Bond Coverage is Nationwide; Bond # is CO-1104

Operators Representative:

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

Bill Greenlees

Operations Engineering Advisor

Don Mayberry Superintendent

Devon Energy Production Company, L.P.

20 North Broadway

Oklahoma City, OK 73102-8260

Devon Energy Production Company, L.P.

Post Office Box 250

Artesia, NM 88211-0250

(405) 552-8194 (office)

(405) 203-7778 (Cellular)

(505) 748-3371 (office)

(505) 746-4945 (home)

Certification

New Page

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.

Executed this _12th___ day of __August__, 2008.

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 (if not above signatory):

Address (if different from above): Telephone (if different from above):

E-mail (optional): norvella.adams@dvn.com

PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME:
LEASE NO.:
LEASE NO.:
WELL NAME & NO.:
SURFACE HOLE FOOTAGE:
BOTTOM HOLE FOOTAGE
LOCATION:
COUNTY:
Devon Energy Production Company, LP
LC063645
Great Bear Park 24 Fed #1
1680' FNL & 1980' FEL
Section 24, T. 18 S., R 33 E., NMPM
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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Noxious Weeds
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⊠ Construction
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Federal Mineral Material Pits
Well Pads
Roads
Road Section Diagram
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Production (Post Drilling)
Electric Lines
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Final Ahandonment/Reclamation

I. GENERAL PROVISIONS

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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 1 through June 15 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.

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 (505) 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

There is no measurable soil on this well pad to stockpile. No topsoil stockpile is required.

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.

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 (505) 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 thirty (30) feet.

Surfacing

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

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

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

Crowning

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

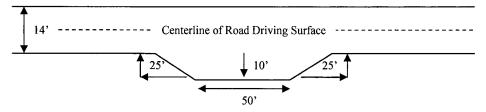
Ditching

Ditching shall be required on both sides of the road.

Turnouts

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

Standard Turnout – Plan View

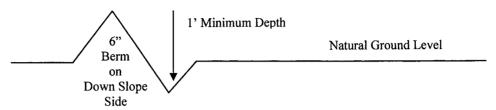


Drainage

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

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

Cross Section of a Typical Lead-off Ditch



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

Formula for Spacing Interval of Lead-off Ditches

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

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

Culvert Installations

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

Cattleguards

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

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

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

Fence Requirement

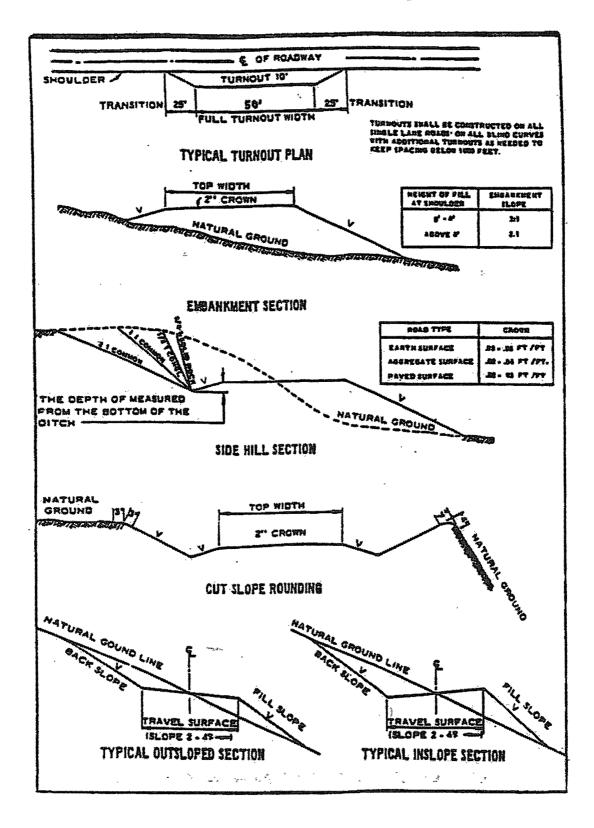
Where entry is required across a fence line, the fence shall be braced and tied off on both sides of the passageway prior to cutting.

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

Public Access

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

Figure 1 - Cross Sections and Plans For Typical Road Sections



VII. DRILLING

A. DRILLING OPERATIONS REQUIREMENTS

The BLM is to be notified 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

- 1. A Hydrogen Sulfide (H2S) Drilling Plan should be activated 500 feet prior to drilling into the Queen formation. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.
- 2. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
- 3. 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 are located, this does not include the dog house or stairway area.

B. CASING

Changes to the approved APD casing and cement program require submitting a sundry and receiving approval prior to work. Failure to obtain approval prior to work will result in an Incident of Non-Compliance being issued.

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

Wait on cement (WOC) time for a primary cement job will be a minimum 18 hours for a water basin, 24 hours in the potash area, or 500 pounds compressive strength, whichever is greater for all casing strings. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. See individual casing strings for details regarding lead cement slurry requirements.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

Possible lost circulation in the Grayburg and San Andres formations. Possible water and brine flows in the Salado and Artesia Groups. If the Wolfcamp is penetrated, it will be over pressured.

- 1. The 11-3/4 inch surface casing shall be set at approximately 1700 feet (a minimum of 25 feet into the Rustler Anhydrite and above the salt) and cemented to the surface. Fresh water mud to be used to setting depth.
 - 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 a surface log readout will be used or a cement bond log shall be run to verify the top of the cement.
 - b. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The minimum required fill of cement behind the 8-5/8 inch intermediate casing is:
 - □ Cement to surface. If cement does not circulate see B.1.a, c-d above.
 Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.

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

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

- b. Second stage above DV tool, cement shall:
- Cement should tie-back at least 500 feet into previous casing string. Operator shall provide method of verification.
- 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

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- 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. 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.
 - e. A variance to test the surface casing and BOP/BOPE (entire system) to the reduced pressure of 1000 psi with the rig pumps is approved.

D. DRILL STEM TEST

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

NOTE – area code for Eddy and Lea counties is 575 with effective date 10/05/2008 according to Windstream. H2S plan still has 505 numbers.

WWI 092708

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. 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.
- 10. Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the Authorized Officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed

is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

11. Special Stipulations:

- For reclamation remove poles, lines, transformer, etc. and dispose of properly.
- Fill in any holes from the poles removed.
- See attached reclamation plans.

IX. INTERIM RECLAMATION & RESERVE PIT CLOSURE

A. INTERIM RECLAMATION

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

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

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

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

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

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

^{**}Four-winged Saltbush

Pounds of seed \mathbf{x} percent purity \mathbf{x} percent germination = pounds pure live seed

⁵lbs/A

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

^{*}Pounds of pure live seed:

X. FINAL ABANDONMENT & REHABILITATION REQUIREMENTS

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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.