7087

ATS-08-243

OCD-ARTESIA

Fem 3160-3 FEB 2 1 2008		293			APPROVEI		
(February 2005) OCD-ARTESIA UNITED STATES	S	•		Expires	lo 1004-013 March 31, 2	007	
DEPARTMENT OF THE BUREAU OF LAND MAN	5 Lease Serial No. NMNM-11226						
	APPLICATION FOR PERMIT TO DRILL OR REENTER				or Tribe l	Name	
la. Type of work	ER	3.333		7 If Unit or CA Agr	eement, Na	me and No.	
Ib. Type of Well ☐O: Well ☐Other	√ Sπ	ngle ZoneMultip	ole Zone	8 Lease Name and Jalapeno 8 Fe		370	ōal
2 Name of Operator Devon Energy Production Co., LP	61	37		9 API Well No. 30 - 015	3	613	8
3a. Address 20 North Broadway OKC, OK 73102		. (include area code) 552-7802		10 Field and Pool, or Black River; I		•	- 1170
A Location of Well (Panert location algorith and as accordance with a	m Ctarto nominana	*\		11 Sec, T R M. or E			<u> </u>
At surface SENE LEFT FUL & 660' FEL At proposed prod zone SENE 1650' FUL & 660' FEL	B,W.H.	550/N \$ 666 550/N \$ 660	0/E 51/E	Sec 8 T24S-R2	27E		
14 Distance in miles and direction from nearest town or post office* Approximately 7 miles southwest of Loving, NM.		N F GGC	/ -	12 County or Parish Eddy		13 State NM	
15 Distance from proposed* location to nearest	16 No of a	cres in lease	17 Spacii	ng Unit dedicated to this	well		
property or lease line, ft (Also to nearest drig unit line, if any) 660'	2026.37		320				
18 Distance from proposed location* to nearest well, drilling, completed,	19. Proposed	Depth		BIA Bond No. on file			
applied for, on this lease, ft 2113'	12,500'		CO-1	1104			
21 Elevations (Show whether DF, KDB, RT, GL, etc.) 3166' GL	22. Approxir	nate date work will star 01/01/2008	t*	23 Estimated duratio 45 days	n		
	24. Attac	chments				,	
The following, completed in accordance with the requirements of Onsho	re Oil and Gas	Order No I, must be at	tached to th	is form			_
Well plat certified by a registered surveyor A Drilling Plan		4 Bond to cover the Item 20 above)	ne operatio	ns unless covered by an	existing b	ond on file (so	ee
3 A Surface Use Plan (if the location is on National Forest System SUPO must be filed with the appropriate Forest Service Office)	Lands, the	5. Operator certific 6 Such other site BLM		ormation and/or plans as	s may be re	quired by the	
25 Signature)	(Printed/Typed)			Date		=
Title (A)		Stephanie A. Ysasaş			12/1	7/2007	_
Sr/Staff Engineering Technician			•				
Approved by (Signature) /s/ James Stovall	Name	(Printed/Typed), /S/ Jai	mes S	tovall		FEB 1	4 2008
FIELD MANAGER	Office	CARLS	RAD	FIELD OF	-ICE		
Application approval does not wairant or certify that the applicant hold conduct operations thereon Conditions of approval, if any, are attached.	ls legal or equit	able title to those right		gect lease which would e			_ ရွဲ
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a ci States any false, fictitious or fraudulent statements or representations as					* * * * * * * * * * * * * * * * * * * *	* *112 * 6 7 1	<u>~</u>

*(Instructions on page 2)

Carlsbad Controlled Water Basin

SEE ATTACHED FOR CONDITIONS OF APPROVAL

APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED

OCD-ARTESIA

Form 3160-5 (February 2005)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB No 1004-0137 Expires March 31, 2007

5 Lease Serial No

NMNM-112268

abandoned well.	Use Form	3160-3 (AF	PD) for suc	h proposals
Do not use this	form for pr	roposals to	drill or to	re-enter an
SUNDRY	NOTICES A	AND REPO	RTS ON W	ELLS

SUNDRY N Do not use this f abandoned well.	6 If Indian, Allottee o	r Tribe Name					
SUBMIT	IN TRIPLICATE - Other	instructions on page 2.		7 If Unit of CA/Agree	ement, Name and/or No		
1 Type of Well Oil Well Gas W	ell Other	FEB 2 1 2000		8 Well Name and No. Jalapeno 8 Fed Com 1			
2 Name of Operator Devon Energy Production Co., LP		OCD-ARTES	IA	9 API Well No			
3a Address 20 North Broadway OKC, OK 73102-8260		3b Phone No. (include area co	de)	10 Field and Pool or I Black R	Exploratory Area River; Morrow (Gas)		
4 Location of Well (Footage, Sec , T , SENE 1650' FNL & 660' FEL Lot H Sec 8-T24S-R27E	R , M , or Survey Description)		11 Country or Parish, Eddy (State County, New Mexico		
12 CHEC	K THE APPROPRIATE BO	OX(ES) TO INDICATE NATUR	E OF NOTIC	E, REPORT OR OTH	ER DATA		
TYPE OF SUBMISSION		TY	PE OF ACTI	ION			
Notice of Intent	Acidize Alter Casing	Deepen Fracture Treat	Recla	iction (Start/Resume)	Water Shut-Off Well Integrity		
Subsequent Report	Casing Repair Change Plans	New Construction Plug and Abandon		nplete orarily Abandon	Other Change Location		
Final Abandonment Notice	Convert to Injection	Plug Back		r Disposal			
Attach the Bond under which the was following completion of the involve testing has been completed. Final addermined that the site is ready for the original Application for Permit to requesting that the location be chan initial Location: SENE Lot H. Sec 8-T24S-R27E. 168 Revised Location: SENE Lot H. Sec 8-T24SS-R27E.	ed operations If the operation Abandonment Notices must final inspection) Drill, Form 3160-3, was ged to a new arch site for 550' FNL & 660' FEL	ion results in a multiple completion be filed only after all requiremen filed by Devon Energy Produc	on or recomplets, including i	etion in a new interval reclamation, have been	, a Form 3160-4 must be filed once completed and the operator has		
Revised C-102 attached Per Barry Hunt, BLM Surface Protect	ction Specialist, sundry no	otice to change location via Su	ndry notice į	permissable.			
14 I hereby certify that the foregoing is to Name (Printed/Typed) Stephanie A Ysasaga	rue and correct	Title Sr. Staff	Engineering	g Technician			
Signature	//	Date 01/23/2	008				
	THIS SPACE	FOR FEDERAL OR ST	ATE OFF	ICE USE			
Approved by	/s/ James Sto	vall FIE	LD MA	NAGER	FEB 1 4 2008		
Conditions of approval, if any, are attached that the applicant holds legal or equitable the applicant to conduct operations of the applicant to conduct operations.	itle to those rights in the subje		CAR	LSBAD FIEL	D OFFICE		

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)

DON C. DECK

Right-of-Way and Claims Agent
February 13, 2008
Midland, Texas 79705

432-682-0457 Fax 432-682-3837 Mobile 432-528-4401

E-Mail: deckrowagent@cox.net

Bureau of Land Management Carlsbad, Resource Area Attn: Cheryle Ryan 620 East Greene Street Carlsbad, New Mexico 88220

Re: Devon Energy Production Company L.P. Jalapeno "8" Federal Com No. 1
Section 8, T24S, R27E
Eddy County, New Mexico

Devon has reached a settlement for the use of an existing road in Section 9 to access the above listed well. The surface owner's address is as follows:

Moore and Smith Living Trust 29420 Summit Ridge Fair Oaks Ranch, Texas 78015

Any questions please call me at 432 682 0457 or 432 528 4401 (cell).

Thank you for your cooperation.

Don C. Deck

DISTRICT I
1825 N. French Dr., Hobbs, NM 88240
DISTRICT II
1801 W. Grand Avenue, Artesia, NM 88210
DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

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

DISTRICT IV

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

OIL CONSERVATION DIVISION

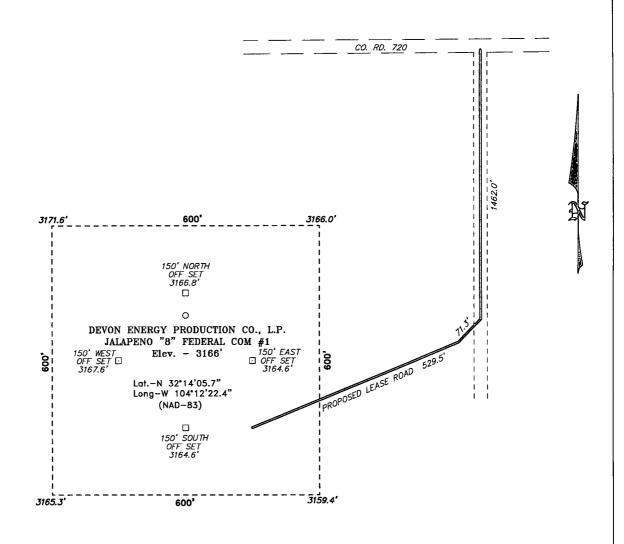
1220 South St. Francis Dr. Santa Fe, New Mexico 87505

□ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

		WELL LO	CATION	AND ACREA	AGE DEDICATI	ON PLAT		
API Number		l	2170		BLAC	Pool Name K RIVER; MC	ORROW	
Property Code				Property Nan APENO 8 FE			Well Nu	ımber
OGRID No.				Operator Nan			Elevat	
6137		DEVON	I ENERG	Y PRODUCT	ION COMPANY	LP	3160	6 '
				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
Н 8	24 S	27 E		1550	NORTH	660	EAST	EDDY
		Bottom	Hole Loc	eation If Diffe	erent 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 Acres Joint	or Infill Co	nsolidation (Code Or	der No.	ſ			
NO ALLOWABLE					JNTIL ALL INTEI APPROVED BY		EEN CONSOLIDA	ATED
	7	U		/		OPERATO	OR CERTIFICAT	ION
			Lat - N32 Long - W SPC- N.: E.:	LOCATION 104'12'22.4" 449224.57 580641.50 83)	3171.6' 3166.0 	contained hereis the best of my thus organization interest or unled land including location pursuan owner of such or to a volutiful compulsory for the division. Signature STEPHA Printed Nam SURVEYO I hereby certify on this plat we actual surveys supervison an correct to the DECE Date Surveys Signature & Professional	that the well location as plotted from field made by me or and that the same is a best of my belief	and that and that ing and that ing in the sole an writerest, or a matered by Date SAGA HON on shown notes of under my true and f.

SECTION 8, TOWNSHIP 24 SOUTH, RANGE 27 EAST, N.M.P.M., NEW MEXICO. EDDY COUNTY,



Directions to Location:

FROM THE JUNCTION OF CAVERNS HWY AND CO. RD. 720, GO EAST ON CO. RD. 720 FOR 1.3 MILES TO PROPOSED LEASE ROAD.

Basin surveyS p.o. box 1786-hobbs, new mexico

W.O. Number: 18892 Drawn By: J. M. SMALL

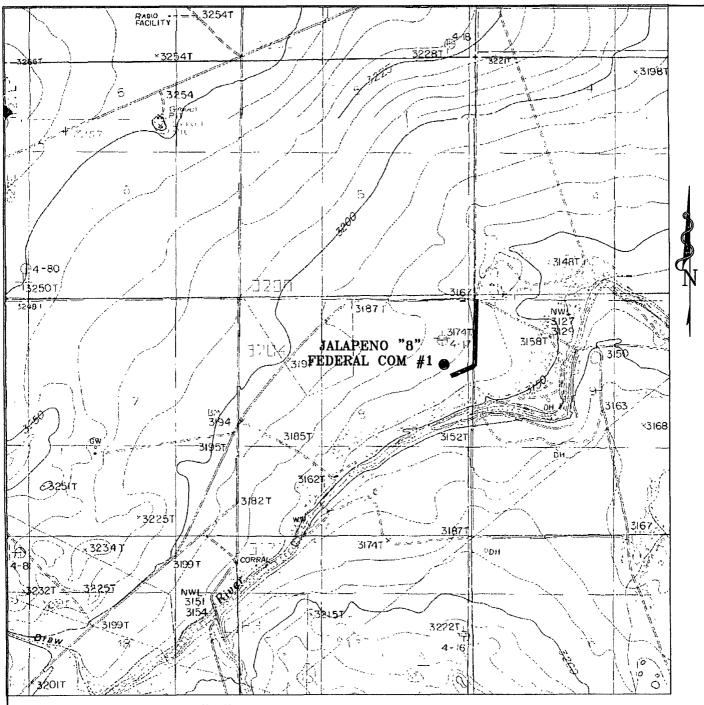
Disk: 18892W 12-14-2007 JMS

RIVER 400 FEET 200 0 200 SCALE: 1" = 200'

CO., DEVON ENERGY PROD.

JALAPENO "8" FEDERAL COM #1 / WELL PAD TOPO THE JALAPENO "8" FEDERAL COM #1 LOCATED 1550' FROM THE NORTH LINE AND 660' FROM THE EAST LINE OF SECTION 8, TOWNSHIP 24 SOUTH, RANGE 27 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO.

Sheets Sheet Survey Date: 12-13-2007



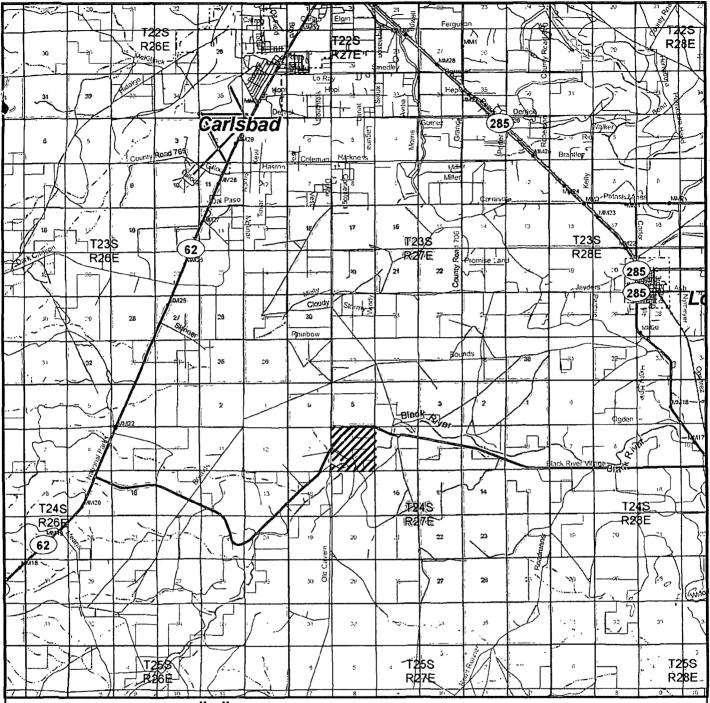
JALAPENO "8" FEDERAL COM #1 Located at 1550' FNL AND 660' FEL Section 8, Township 24 South, Range 27 East, N.M.P.M., Eddy County, New Mexico.



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

W.O. Number:	JMS 18892T
Survey Date:	12-13-2007
Scale: 1" = 2	000'
Date: 12-14-	-2007

DEVON ENERGY PROD. CO., L.P.



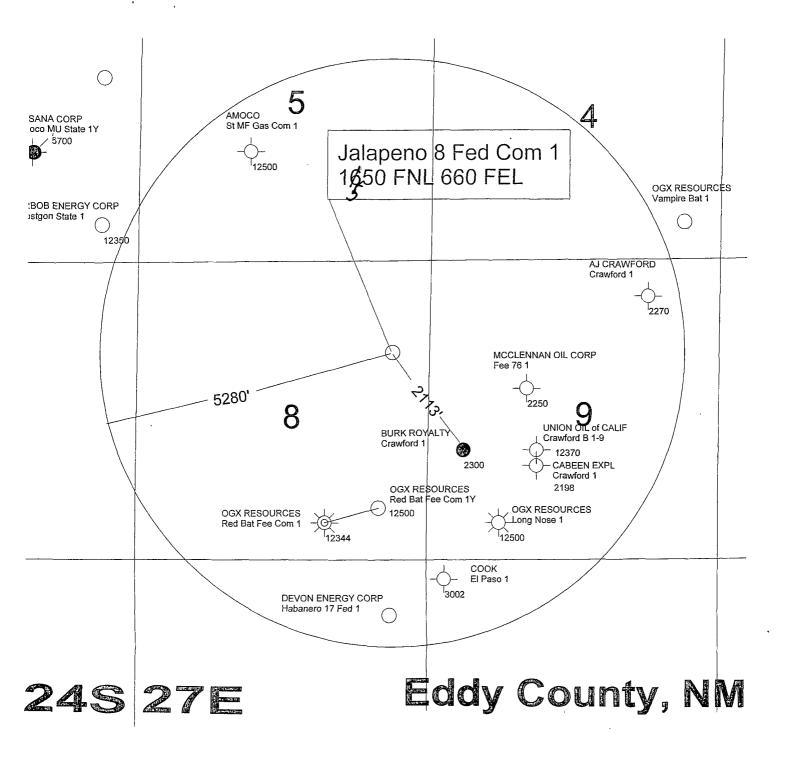
JALAPENO "8" FEDERAL COM #1
Located at 1550' FNL AND 660' FEL
Section 8, Township 24 South, Range 27 East,
N.M.P.M., Eddy County, New Mexico.

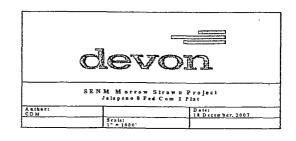


P.O. Box 1786 1120 N. West County Rd. Hobbs, New Mexico 88241 (505) 393-7316 - Office (505) 392-3074 - Fax basinsurveys.com

W.O. Number:	JMS 18892TR
Survey Date:	12-13-2007
Scale: 1" = 2	MILES
Date: 12-14-	2007

DEVON ENERGY PROD. CO., L.P.





DRILLING PROGRAM

Devon Energy Production Company, LP 1550 Jalapeno 8 Fed Com 1

Surface Location: 1450 FNL & 660' FEL, Unit H, Sec 8 T24S R27E Eddy, NM Bottom Hole Location: 1450 FNL & 660' FEL, Unit H, Sec 8 T24S R27E Eddy, NM

1550

1. Geologic Name of Surface Formation

a. Quaternary

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

a.	Alluvium	0'	Water
b.	Salado	450'	
c.	Lamar Lm	2025'	Oil
d.	Delaware Ss	2100'	Oil
e.	Cherry Canyon Ss	2800'	Oil
f.	1 st Bone Springs Ss	6500'	Oil
g.	2 nd Bone Springs Ss	7030'	Oil
h.	3 rd Bone Springs Ss	8425'	Gas
i.	Wolfcamp	8800'	Gas
j.	Strawn	10550'	Gas
k.	Atoka	10850'	Gas
l.	Morrow Clastics	11500'	Gas
m.	Middle Morrow Lime	11820'	Gas
n.	Lower Morrow	12130'	Gas
ο.	Barnett Shale	12285'	Gas
p.	Total Depth	12500'	

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 400' and circulating cement back to surface. Fresh water sands will be protected by setting 9 5/8" casing at 2025' and circulating cement to surface. The Morrow intervals will be isolated by setting 5 ½" casing to 12500' and circulating cement above the base of the 9 5/8" casing.

3. Casing Program:

<u>Hole</u> <u>Size</u>	<u>Hole</u> Interval	OD Csg	<u>Casing</u> Interval	Weight	<u>Collar</u>	<u>Grade</u>
17 1/2"	0' -400'	13 3/8"	0'-400'	48#/ft	ST&C	H-40
12 1/4"	400' 2025'	9 5/8"	0'- 2025'	40#/ft	LT&C	J-55
8 3/4"	2025'- 12500'	5 ½"	0-12500'	17#/ft	LT&C	HCP-110

Design Parameter Factors:

Casing Size	Collapse Design	Burst Design	Tension Design
	Factor	<u>Factor</u>	<u>Factor</u>
13 3/8"	2.74	2.5	12.9
9 5/8"	2.36	1.88	6.19
5 ½"	1.34	1.61	2.09

4. Cement Program:

a. 13 3/8" Surface

Cement with Lead Slurry: 175 sacks (35:65) Poz (Fly Ash):Premium Plus C Cement + 2% bwoc Calcium Chloride + 0.125 lbs/sack Cello Flake + 6% bwoc Bentonite + 93.6% Fresh Water. Yield: 1.83 cf/sack. Tail Slurry:200 sacks Premium Plus C Cement + 2% bwoc Calcium Chloride + 0.125 lbs/sack Cello Flake + 56.3% Fresh Water. Yield: 1.35 cf/sack. Displacement: 56.5 bbls mud @ 9 ppg. TOC to surface.

b. 9 5/8" Intermediate

Cement with Lead Slurry: 500 sacks (35:65) Poz (Fly Ash):
Premium Plus C Cement + 5% bwow Sodium Chloride + 0.125
lbs/sack Cello Flake + 5 lbs/sack LCM-1 + 6% bwoc Bentonite +
95.8% Fresh Water. Yield: 1.95 cf/sack. Tail Slurry: 250 sacks
(60:40) Poz (Fly Ash):Premium Plus C Cement + 5% bwow
Sodium Chloride + 0.5% bwoc Sodium Metasilicate + 4% bwoc
MPA-1 + 64.8% Fresh Water. Yield: 1.37 cf/sack.

Displacement: 150.5 bbls Mud @ 9.5 ppg. TOC to surface.

c. 5 1/2" Production

Cement with Stage 1:

Cement Slurry: 1095 sacks (15:61:11) Poz (Fly Ash):Premium Plus C Cement:CSE-2 + 0.3% bwoc R-3 + 1% bwow Potassium Chloride + 0.75% bwoc EC-1 + 0.125 lbs/sack Cello Flake + 0.4% bwoc CD-32 + 3 lbs/sack LCM-1 + 0.6% bwoc FL-25 + 0.6% bwoc FL-52A + 72.3% Fresh Water. Yield: 1.57 cf/sack. Displacement: 288.7 bbls Displacement Fluid.

Stage 2: DV tool @ 8,000'

Lead Slurry: 1230 sacks (35:65) Poz (Fly Ash):Class H Cement + 0.125 lbs/sack Cello Flake + 3 lbs/sack LCM-1 + 6% bwoc Bentonite + 0.4% bwoc FL-52A + 99.3% Fresh Water. Yield: 1.95 cf/sack. Tail Slurry: 565 sacks (60:40) Poz (Fly Ash):Class H Cement + 1% bwow Sodium Chloride + 0.75% bwoc BA-10 + 0.1% bwoc R-3 + 0.125 lbs/sack Cello Flake + 2 lbs/sack Kol Seal + 4% bwoc MPA-1 + 61.3% Fresh Water. Yield: 1.34 cf/sack. Displacement: 186.0 Displacement Fluid. TOC @ 1525'.

The above cement volumes could be revised pending the caliper measurement from the open hole logs. The top of cement is designed to reach approximately 500' above the 9 5/8" casing shoe. All casing is new and API approved.

5. Pressure Control Equipment:

The blowout preventor equipment (BOP) shown in Exhibit #1 will consist of a (5M 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 BOP will be installed on the 13 3/8" surface casing and utilized continuously until total depth is reached. All BOP's and associated equipment will be tested to 1200 psi with the rig pump before drilling out the 13 3/8" casing shoe (70% of 48#, H-40 casing). Prior to drilling out the 9 5/8" casing shoe, the BOP's and Hydril will be tested as per BLM Drilling Operations 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 drillers log. A 2" kill line and 3" 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
0'-400'	8.6-9.4	32-36	N/C	Fresh Water/Native Mud
400'-2025'	8.4-8.5	28-29	N/C	Fresh Water
2025'-7500'	8.4-8.5	28 visc	N/C	Fresh Water
7500'-9800'	9.3-9.5	28	N/C	Fresh Water/Cut Brine
9800'-12500'	9.3-10.6	31-38	< 10cc	Cut Brine/XD Polymer

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 13 3/8" casing shoe until the 5 ½" casing is cemented. Breathing equipment will be on location upon drilling the 13 3/8" 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. There is no known presence of H2S in this area. If H2S is encountered the operator will comply with the provisions of Onshore Oil and Gas Order No. 6 No lost circulation is expected to occur. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. Estimated BHP 4700 psi and Estimated BHT 185°. No H2S is anticipated to be encountered.

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 32 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.

p.1

p.2

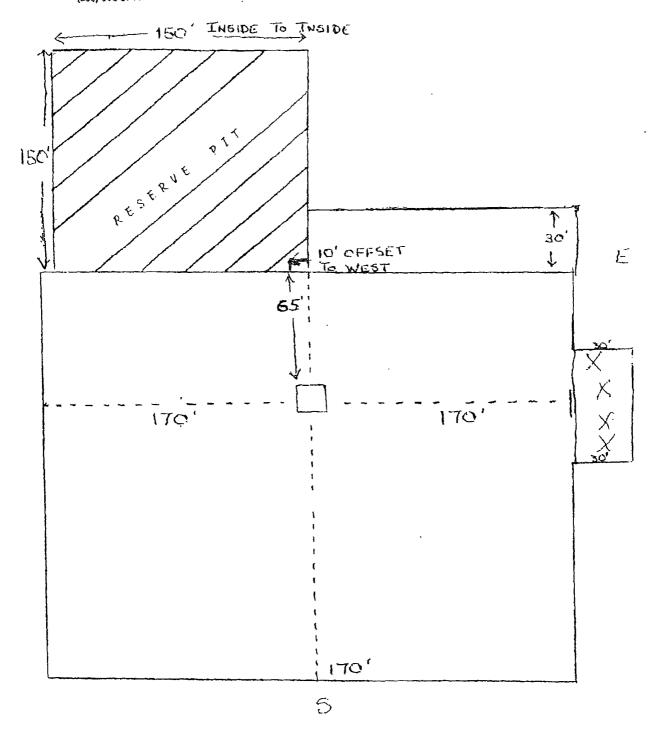
MATVAY DRILLING COMPANY Post Office Box 924

 $\nabla \nabla$

Hobbs, New Mexico 68241 (505) 397-3311 (505) 393-3744

N

MSVAY 7



SEE ATTACHED FOR CONDITIONS OF APPROVAL

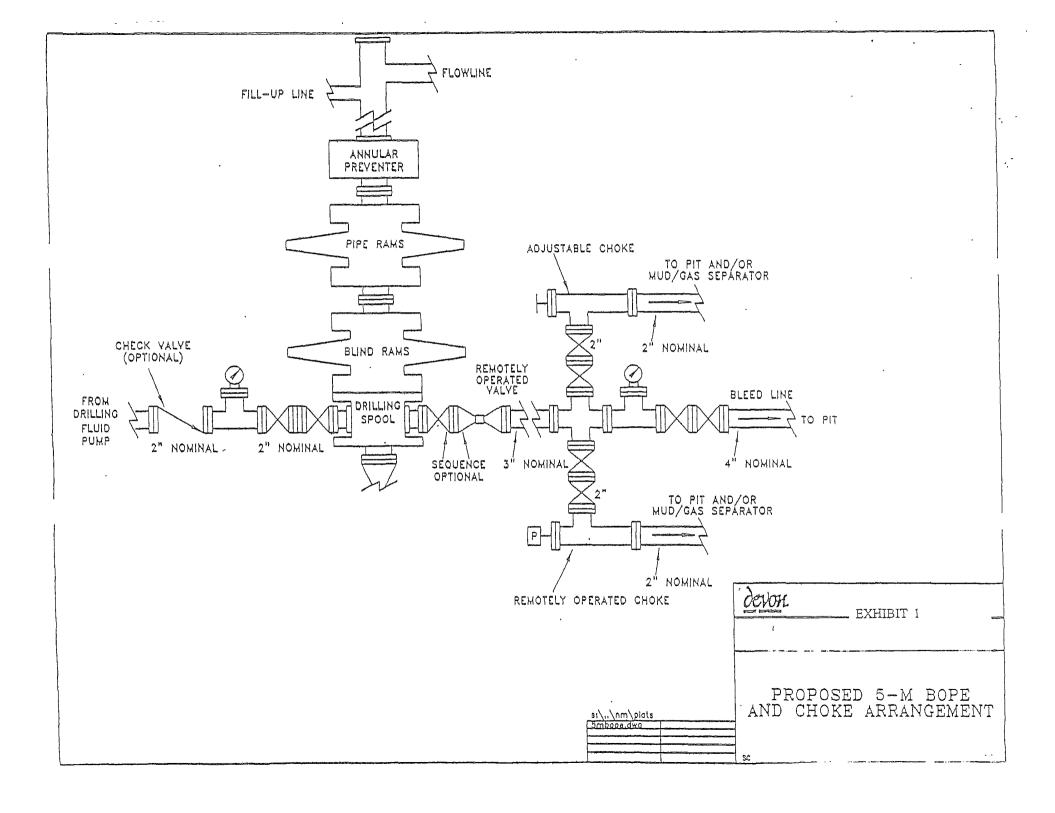
Attachment to Exhibit #1 NOTES REGARDING BLOWOUT PREVENTERS

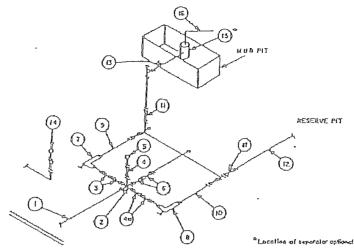
Devon Energy Production Company, LP

Jalapeno 8 Fed Com 1

Surface Location: 1,50° FNL & 660° FEL, Unit H, Sec 8 T24S R27E Eddy, NM Bottom Hole Location: 1,50° FNL & 660° FEL, Unit H, Sec 8 T24S R27E Eddy, NM

- 1. Drilling nipple will be constructed so it can be removed mechanically without the aid of a welder. The minimum internal diameter will equal BOP bore.
- 2. Wear ring will be properly installed in head.
- 3. Blowout preventer and all associated fittings will be in operable condition to withstand a minimum 5000 psi working pressure.
- 4. All fittings will be flanged.
- 5. A full bore safety valve tested to a minimum 5000 psi WP with proper thread connections will be available on the rotary rig floor at all times.
- 6. All choke lines will be anchored to prevent movement.
- 7. All BOP equipment will be equal to or larger in bore than the internal diameter of the last casing string.
- 8. Will maintain a kelly cock attached to the kelly.
- 9. Hand wheels and wrenches will be properly installed and tested for safe operation.
- 10. Hydraulic floor control for blowout preventer will be located as near in proximity to driller's controls as possible.
- 11. All BOP equipment will meet API standards and include a minimum 40 gallon accumulator having two independent means of power to initiate closing operation.





BEYOND SUBSTRUCTURE

	MINIMUM REQUIREMENTS										
			TWM DOD, E			5,000 MWP			10.000 MWP		
Ma		1.11.	NOMINAL	RATING	LD.	NOMINAL	RATING	LD.	HOMMAL	RATING	
1	Line from drilling speed		٦-	000,6		3,	5,000	1	3"	10,000	
2	Cross 3*13*12*	<u> </u>		3,000	<u> </u>	<u> </u>	5,000		<u> </u>		
1	Cross 2"x3"x3"x3"							<u> </u>		10,000	
3	Valves(1) Gato 日 Plag 口(2)	3-1/8*		3,000	3-178"		5,000	3-1/8"		000.0r	
4	Volvo Gale []	1-13/16"		3,000	1-13/16"		5,000	1-13/16*		10,000	
40	Valvos(1)	2-1/16		3.000	2-1/16"		5,000	3-1/6"		10,000	
5	Pressure Gauge			3,000			5,000			10,800	
6	Vzlves Gzte () Plug ((Z)	3-1/8*		3,000	3-1/9"		2.000	3-1/8"		10,000	
7	Adjustable Choke(3)	2		000,E	2*		5,000	_ ~		10,000	
Ø	Adjustable Choke	1-		3,000	1*		5,000	2-		10,000	
9	Lünes	-	3*	000,E		3"	5,000		3-	10,000	
10	Line		2"	3,000		2"	5,000		3~	10,000	
11	Valvas Plug [][2]	3-1/6*	T	3,000	3-1/8"		000,2	3-1/9"		10,000	
12	Lines		3*	1,000	1	3*	1.000		3"	2,000	
13	Lines	1	3-	1.000		3-	1,000		3-	2,000	
14	Remote reading compound			2,000	-		5,000	-		10,000	
15	Gas Separator		275			2'r5'			2'x5'		
16	Lina		4"	1_000		4-	1,000		4"	2,030	
17	Valves Plug (CZ)	3-1/01		9000,E	1-1/8"		5,000	3-1/8*		000,08	

- (1) Only one required in Chass 3M.
- (2) Gato valves only shall be used for Class 10M.
- (J) Remote operated hydroube choko required on 5,000 psi and 10,000 psi for drilling.

EQUIPMENT SPECIFICATIONS AND INSTALLATION INSTRUCTIONS

- 1. All connections in choice manifold shall be welded, studded, flanged or Cameron clamp of comparable rating.
- 2. All flanges shall be API 68 or 68X and ring gaskels shall be API AX or BX. Use only BX for 10 MWP.
- 3. All lines shall be securely anchored.
- 4. Chokes shall be equipped with tungsten carbide seats and needles, and replacements shall be available.
- 5. Choke manifold pressure and standpipe pressure gauges shall be available at the choke manifold to assist in regulating chokes. As an alternate with automatic chokes, a choke manifold pressure gauge shall be located on the rig floor in conjunction with the standpipe pressure gauge.
- Line from drilling spoot to choke manifold should be as straight as possible. Lines downstream from chokes shall make turns by large bends or 90° bends using bull plugged tees.
- 7. Discharge lines from chokes, choke bypass and from top of gas separator should yent as far as practical from the well.

HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

- 1. All Company and Contract personnel admitted on location must be trained by a qualified H2S safety instructor to the following:
 - a. Characteristics of H2S
 - b. Physical effects and hazards
 - c. Proper use of safety equipment and life support systems.
 - d. Principle and operation of H2S detectors, warning system and briefing areas
 - e. Evacuation procedures, routes and first aid.
 - f. Proper use of 30-minute pressure demand air pack.
- 2. H2S Detection and Alarm System
 - a. H2S detectors and audio alarm system to be located at bell nipple, end of blooie line (mud pit) and on derrick floor or doghouse.
- 3. Windsock and/or wind streamers
 - a. Windsock at mud pit area should be high enough to be visible
 - b. Windsock at briefing area should be high enough to be visible
 - c. There should be a windsock at entrance to location
- 4. Condition Flags and Signs
 - a. Warning Sign on access road to location
 - b. Flags to be displayed on sign at entrance to location. Green flag, normal safe condition. Yellow flag indicates potential pressure and danger. Red flag, danger, H2S present in dangerous concentration. Only emergency personnel admitted to location.
- 5. Well Control Equipment
 - a. See Exhibit "E" & "E-1"
- 6. Communication
 - a. While working under masks chalkboards will be used for communication.
 - b. Hand signals will be used where chalk board is inappropriate
 - c. Two way radio will be used to communicate off location in case of emergency help is required. In most cases cellular telephones will be available at most drilling foreman's trailer or living quarters.
- 7. Drill stem Testing
 - a. Exhausts will be watered
 - b. Flare line will be equipped with an electric igniter or a propane pilot light in case gas reaches the surface.
 - c. If the location is near to a dwelling a closed DST will be performed.
- 8. Drilling contractor supervisor will be required to be familiar with the effects H2S has on tubular goods and other mechanical equipment.

If H2S is encountered, mud system will be altered if necessary to maintain control or formation. A mud gas separator will be brought into service along with H2S scavengers if necessary.

SURFACE USE PLAN

Devon Energy Production Company, LP

Jalapeno 8 Fed Com 1

Surface Location: 1650' FNL & 660' FEL, Unit H, Sec 8 T24S R27E Eddy, NM Bottom Hole Location: 1650' FNL & 660' FEL, Unit H, Sec 8 T24S R27E Eddy, 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 Caverns Hwy and Co. Rod 720, go east on Co. Rd 720 for 1.3 miles to proposed lease road.

2. **New or Reconstructed Access Roads:**

- a. The well site layout, Form C-102 shows the existing County Road. Approximately 2063' of new access road will be constructed as follows:
- 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.

Location of Existing Wells: 3.

1 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, the Jalapeno 8 Fed Com 1 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. 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.

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. 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 rehabilitated 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

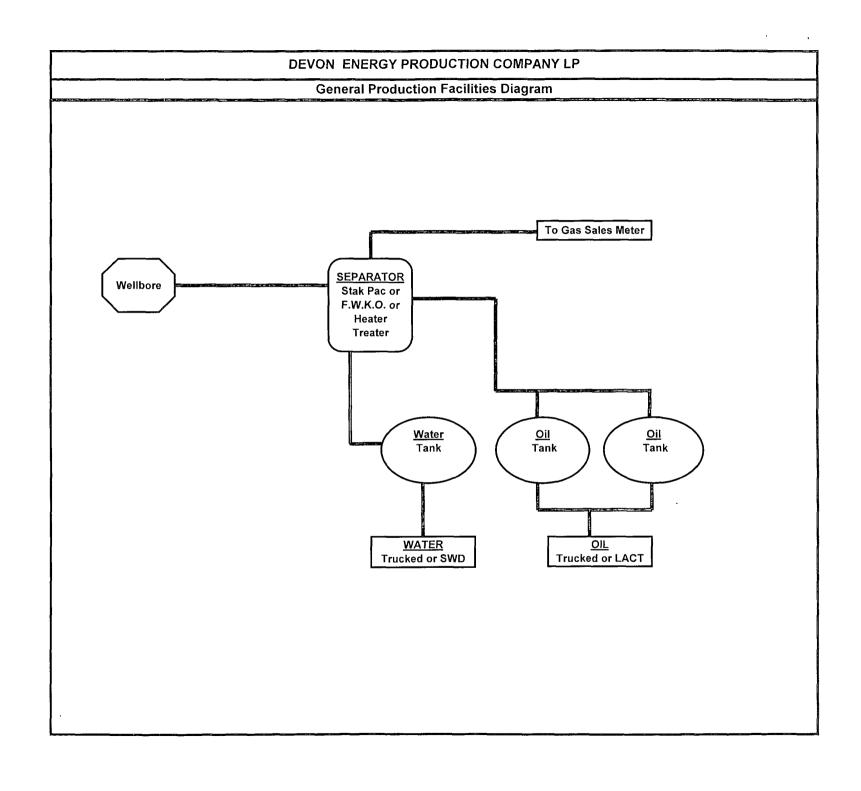
- a. The surface is owned by the US Government and is administered by the Bureau of Land Management. The surface is multiple use with the primary uses of the region for the grazing of livestock and the production of oil and gas.
- b. The proposed road routes and the surface location will be restored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

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

Greg McGowen
Operations Engineer Advisor

Joe Johnston Superintendent

Devon Energy Production Company, L.P. 20 North Broadway, Suite 1500 Oklahoma City, OK 73102-8260

Devon Energy Production Company, L.P. Post Office Box 250 Artesia, NM 88211-0250

(405) 228-8965 (office) (405) 464-9769 (cell) Gregory.McGowen@dvn.com (505) 748-0171 (office) (505) 513-0630 (cell) Joe.Johnston@dvn.com

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.

Executed this 17th day of December, 2007.

Printed Name: Stephanie A.

Telephone: (405)-5**/**2-7802

Field Representative (if not above signatory): Joe Johnson (see above)

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

E-mail (optional):

PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Devon Energy Production Company, L.P.
LEASE NO.:	NM-112268
	Jalapeno 8 Fed. Com. #1
SURFACE HOLE FOOTAGE:	1550' FNL & 660' FEL
BOTTOM HOLE FOOTAGE	Same
LOCATION:	Section 08, T. 24 S., R 27 E., NMPM
COUNTY:	Eddy County, New Mexico

TABLE OF CONTENTS

Standard Conditions of Approval (COA) apply to this APD. If any deviations to these standards exist or special COAs are required, the section with the deviation or requirement will be checked below.

General Provisions
Permit Expiration
Archaeology, Paleontology, and Historical Sites
Noxious Weeds
Special Requirements
Closed Mud System
Berm tank batteries
Construction Construction
Notification
Topsoil
Federal Mineral Material Pits
Well Pads
Roads
Road Section Diagram
☑ Drilling
Production (Post Drilling)
Well Structures & Facilities
Interim Reclamation
Final Abandonment/Declaration

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)

Due to the close proximity to the Black River the well is to be drilled utilizing a closed mud system with no pits allowed. All fluids and cuttings will be hauled off site. Any collection facilities that are needed will be bermed to contain any spills that may occur.

VI. CONSTRUCTION

A. NOTIFICATION

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Carlsbad Field Office at (505) 234-5972 at least 3 working days prior to commencing construction of the access road and/or well pad.

When construction operations are being conducted on this well, the operator shall have the approved APD and Conditions of Approval (COA) on the well site and they shall be made available upon request by the Authorized Officer.

B. TOPSOIL

The operator shall stockpile the topsoil of the well pad. The topsoil to be stripped is approximately 6 inches in depth. The topsoil shall not be used to backfill the reserve pit and will be used for interim and final reclamation.

C. RESERVE PITS

Tanks are required for drilling operations: No Pits.

The operator shall properly dispose of drilling contents at an authorized disposal site.

D. FEDERAL MINERAL MATERIALS PIT

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

Payment shall be made to the BLM prior to removal of any additional federal mineral materials from any site other than the reserve pit. Call the Carlsbad Field Office at (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.

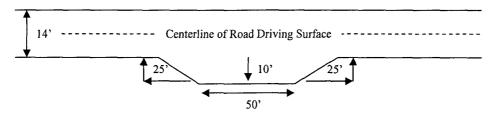
Ditching

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

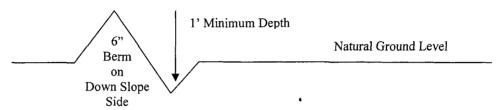


Drainage

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

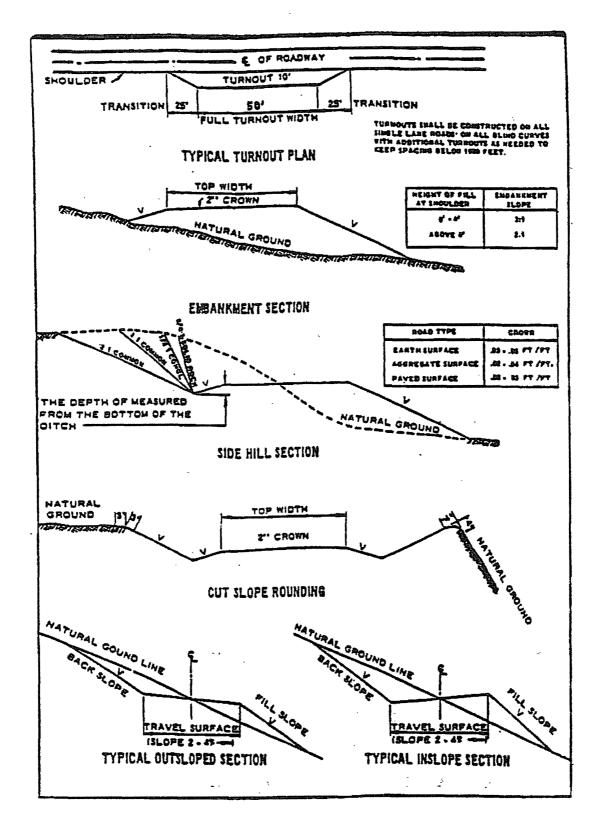
Where entry is required across a fence line, the fence shall be braced and tied off on both sides of the passageway prior to cutting.

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

Eddy County

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

- 1. Although Hydrogen Sulfide has not been reported in this section, it is always a potential hazard. If Hydrogen Sulfide is encountered, please report measured amounts 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

- 1. The 13-3/8 inch surface casing shall be set a minimum of 25 feet above the Salt at approximately 400 feet and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with 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 will be a minimum 18 hours for a water basin, 24 hours in the potash area, or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement). Please provide WOC times to inspector for cement slurries.

- 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, a remedial cement job will be done prior to drilling out that string.

Medium cave/karst.

Possible lost circulation in the Delaware.

Possible abnormal pressures in the Wolfcamp and high pressure through the Pennsylvanian section.

- 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-d above. Please provide WOC times to inspector for cement slurries.

Formation below the 9-5/8" shoe to be tested according to Onshore Order 2.III.B.1.i.

- 3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement should tie-back at least 200 feet into previous casing string. Operator shall provide method of verification. First stage to circulate contact BLM if it does not.
- 4. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

C. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 2. 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. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

f. A variance to test the surface casing and BOP/BOPE to the reduced pressure of 1200 psi with the rig pumps is approved.

D. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the **Wolfcamp** formation, and shall be used until production casing is run and cemented.

E. DRILL STEM TEST

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

Engineer on call phone (after hours): Carlsbad: (575) 706-2779

WWI 020108

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

IX. INTERIM RECLAMATION & RESERVE PIT CLOSURE

A. INTERIM RECLAMATION

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

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

The operators should work with BLM surface management specialists to devise the best strategies to reduce the size of the location. Any reductions should allow for remedial well operations, as well as safe and efficient removal of oil and gas.

During reclamation, the removal of caliche is important to increasing the success of revegetating the site. Removed caliche may be used for road repairs, fire walls or for building other roads and locations. In order to operate the well or complete workover operations, it may be necessary to drive, park and operate on restored interim vegetation within the previously disturbed area. Disturbing revegetated areas for production or workover operations will be allowed. If there is significant disturbance and loss of vegetation, the area will need to be revegetated. Communicate with the appropriate BLM office for any exceptions/exemptions if needed.

Seed Mixture 1, for Loamy 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 bye the authorized officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper 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 (small/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 lovegrass (Eragrostis intermedia)	0.5
Sand dropseed (Sporobolus cryptandrus)	1.0
Sideoats grama (Bouteloua curtipendula)	5.0

^{*}Pounds of pure live seed:

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

X. FINAL ABANDONMENT & REHABILITATION REQUIREMENTS

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

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