mm 3160-3 upril 2004) UNITED STATES DEPARTMENT OF THE BUREAU OF LAND MAN APPLICATION FOR PERMIT TO a. Type of work: ☑ DRILL REENT b. Type of Well: ☑ Oil Well □ Gas Well □ Other Name of Operator	Aries INTERIOR IAGEMENT DRILL OF ER R-1		8210	FORM OMB N	APPROVED 0. 1004-0137 March 31, 200 or Tribe N	
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APPLICATION FOR PERMIT TO a. Type of work: DRILL REENT b. Type of Well: Gas Well Other Name of Operator	DRILL OF	R REENTER			or Tribe N	ame
a. Type of work: DRILL REENT	ER R-			,,,,		
b. Type of Well: Oil Well Gas Well Other		111-POTASH	_			
Name of Operator	√ Sii		ALAA	7 If Unit or CA Agre	eement, Nar	ne and No.
Name of Operator	لينيا	ngle Zone Multip	pie Zone	8. Lease Name and Laguna Salad		ral 2
Devon Energy Production Company, I	.Р (6137		9. API Well No. 30 - 013	5 - 30	1677
a. Address 20 North Broadway Oklahoma City, Oklahoma City 73102-8260		. (include area code) 52-7802 /	, 1	10. Field and Pool, or Laguna Salad		
Location of Well (Report Hearth Gearly and interesting and in		V CTATE	Indes.	11. Sec., T. R. M. or B		
At surface 1090' FNL & 2510' FWL	- Oldr	BRI DUENU.	△ 96	721		•
At proposed prod. zone 1090' FNL & 2510' FWL		NORTHON	•	Lot C Sec 22,	T23S R29	E
I. Distance in miles and direction from nearest town or post office* Approximately 7 miles east of Loving, NM	·			12. County or Parish Eddy County		13. State NM
5. Distance from proposed* location to nearest	16. No. of a	cres in lease	17. Spacin	g Unit dedicated to this		
property or lease line, ft. (Also to nearest drig, unit line, if any)	40		40		HE	CEIVED
B Distance from proposed location*	19. Proposed	d Depth	20. BLM/I	BIA Bond No. on file	MAR	09 2005
to nearest well, dirlling, completed, applied for, on this lease, ft.	8600'				000	ARTROL
Elevations (Show whether DF, KDB, RT, GL, etc.) 2978'	22. Approxi	mate date work will sta 10/15/2005	rt*	23. Estimated duratio 45 days	n	
	24. Attac	chments		· · · · · · · · · · · · · · · · · · ·		
e following, completed in accordance with the requirements of Onsho	re Oil and Gas	Order No.1, shall be a	ttached to th	is form:		
Well plat certified by a registered surveyor. A Drilling Plan.		4. Bond to cover the Item 20 above).	he operatio	ns unless covered by an	existing bo	ond on file (see
A Surface Use Plan (if the location is on National Forest System SUPO shall be filed with the appropriate Forest Service Office).	Lands, the	5. Operator certific 6. Such other site authorized offic	specific info	ormation and/or plans as	s may be re	quired by the
5. Signature	1	(Printed/Typed) Stephanie A. Ysasa	ga		Date 10/0:	5/2005
tle Serior Engineering Ternnician						
pproved by (Signafure) ISI DAVIDE, SINCLAR	Name	(Printed/Typed) 7 DAVID	E.S	INCLAIR.	Date M	AR 072
INSTATE DIRECTOR	Office	NM		E OFFICE	· · · · · · · · · · · · · · · · · · ·	
pplication approval does not warrant or certify that the applicant hole induct operations thereon. onditions of approval, if any, are attached.	ds legal or equi			ject lease which would e		pplicant to
tle 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a cates any false, fictitious or fraudulent statements or representations as	rime for any p to any matter w	erson knowingly and y				
Instructions on page 2)			<u></u>			

Approval Subject to General Requirements and Special Stipulations Attached Cartybod Controlled Water Dails

If earthen pits are used in association with the drilling of this well, an OCD pit permit must be obtained prior to pit construction.

NSL - Drill only

Additional Operator Remarks:

Devon Energy Production Company, LP proposes to drill a Laguna Salado well to 8,600' for commercial quantities of oil and gas. If the well is deemed noncommercial, the wellbore will be plugged and abandoned per Federal regulations. Devon Energy Production Co., LP plans to drill the well per the currently attached Drilling and Surface Use Plan.

Directions: From mile marker #4 on State Hwy 128, go east on Hwy 128 for 0.4 mile to Co. Rd 793; thence south on 793 for 3.5 miles to lease road; thence west for 3.0 miles; thence north for 1.0 mile to location.

H2S: No H2S is expected to be encountered.

Other Operator Remarks:

Well was previously APD'd on 06/02/05, location moved required by BLM.

Original location: Sec 22 T23S-R29E Unit C; 660' FNL & 2140' FWL Current location: Sec 22 T23S-R29E Unit C; 1090' FNL & 2510' FWL



DISTRICT I 1625 N. French Dr., Hobbs, NM 88240 DISTRICT II 811 South First, Artesia, NM 88210

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV 2040 South Pacheco, Santa Fe, NM 87505 State of New Mexico

Form C-102 Revised March 17, 1999

Energy, Minerals and Natural Resources Department

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

OIL CONSERVATION DIVISION 2040 South Pacheco

Santa Fe, New Mexico 87504-2088

□ AMENDED REPORT

		I	WELL LO	CATION	AND ACREA	AGE DEDICATI	ON PLAT		
API	Number		_	Pool Code			Pool Name Laguna Salado	Beag S	
Property	Code				Property Nan		,	Well N	amber
				LAGUNA	SALADO "2	2" FEDERAL		2	
OGRID N					Operator Nan			Elevation	
6137		<u> </u>	DEV	ON ENE	RGY PRODU	CTION CO., L	P	297	<u>'8'</u>
					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
C	22	23 S	29 E		1090	NORTH	2510	WEST	EDDY
			Bottom	Hole Lo	cation 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 Acre	s Joint o	r Infill Co	nsolidation	Code Or	der No.				<u> </u>
40									
NO ALLO	WABLE W					UNTIL ALL INTER APPROVED BY		EN CONSOLIDA	ATED
								R CERTIFICAT	
	Í I	2	969.9'	2994.9'	i I		11	n is true and comple bedge and betief.	ete to the
	 1 ²	⁄ 2510'	O					s A(/.	`
	+	- / - - / / 29	← <u>⊢</u> <u></u>	2972.0'	+ - 			nie A. Ysasaga	
		_at – N32°1 .ong – W10			İ		Printed/Nam Senior Eng	e gineering Techni	cian
		.ong - #10	5 56 25.1				Title 1	0/05/05	
	1				ļ		Date		
							SURVEYO	R CERTIFICAT	ION
					ļ			that the well locati s plotted from field	
	1	·						made by me or d that the same is	· · · ·
	1				5		correct to the	e best of my belief	
							Date Orena	JST 23, 2005	
	+	·					- Signature & Professional	SPATY OF JONES	
					i I		h fat	NEW MET	
			·					h ≯77 V ∖No. 5724 ౖੈ	
	1						Certificato M	Gary L Jone	7977
L	I				L			DEESSIONAL UNITO	

District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico **Energy Minerals and Natural Resources**

Form C-144 June 1, 2004

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

For drilling and production facilities, submit to appropriate NMOCD District Office. For downstream facilities, submit to Santa Fe office

Pit or Below-Grade Tank Registration or Closure Is pit or below-grade tank covered by a "general plan"? Yes 🗌 No 🕅 Type of action: Registration of a pit or below-grade tank 🖾 Closure of a pit or below-grade tank 🔲

Operator: _Devon Energy Production Company, L.PTe	elephone: _(405)-552-7802e-mail address: {	Stephanic Ysasaga@dvn.com
Address: _P.O. Box 250 Artesia, NM 88211		······································
Facility or well name: _Laguna Salado 22 Federal #2 API #:	U/L or Qtr/QtrC_	Sec22T23SR29E
County: Eddy Latitude	Longitude	NAD: 1927 🗖 1983 🗖
Surface Owner: Federal 🖾 State 🗋 Private 🗌 Indian 🗌		
Pit	Below-grade tank	
Type: Drilling 🛛 Production 🗋 Disposal 🗌	Volume:bbl Type of fluid:	
Workover 🗋 Emergency 🗌	Construction material:	
Lined 🛛 Unlined 🗌	Double-walled, with leak detection? Yes 🔲 If not,	explain why not. RECEIVED
Liner type: Synthetic 🛛 Thickness 12_mil Clay 🔲		
Pit Volume 15,000 bbl		JAN 1 8 2006
Depth to ground water (vertical distance from bottom of pit to seasonal	Less than 50 feet	(20 points) OOD-Arii Bala
high water elevation of ground water.)	50 feet or more, but less than 100 feet	(10 points)
	100 feet or more	(0 points)
Wellhead protection area: (Less than 200 feet from a private domestic	Yes	(20 points)
water source, or less than 1000 feet from all other water sources.)		(0 points)
	Less than 200 feet	
Distance to surface water: (horizontal distance to all wetlands, playas,		(20 points)
irrigation canals, ditches, and perennial and ephemeral watercourses.)	200 feet or more, but less than 1000 feet	(10 points)
	1000 feet or more	(0 points)
	Ranking Score (Total Points)	

If this is a pit closure: (1) Attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location: (check the onsite box if you are burying in place) onsite i offsite I If offsite, name of facility . (3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered: No 🗌 Yes 🗋 If yes, show depth below ground surface_ _ft. and attach sample results.

(5) Attach soil sample results and a diagram of sample locations and excavations.

Additional Comments:

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines 🗋, a general permit 🖾, or an (attached) alternative OCD-approved plan 🛄. 1

Date:01/16/06 Printed Name/TitleStephanie A. Ysasaga/Sr. Staff Engineering Technician Your certification and NMOCD approval of this application/closure does not relieve otherwise endanger public health or the environment. Nor does it relieve the operator regulations.		
Approval: Printed Name/TitleSign	uture	Date: 1-19-06





LAGUNA SALADO "22" FEDERAL #2 Located at 1090' FNL and 2510' FWL Section 22, Township 23 South, Range 29 East, N.M.P.M., Eddy County, New Mexico.

Scale: 1'' = 2000'

Date: 08-24-2005



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: 5724AA - KJG #1 Survey Date: 08-23-2005

DEVON ENERGY PROD. CO., L.P.

DRILLING PROGRAM

Devon Energy Production Company, LP Laguna Salado 22 Federal 2

Surface Location: 1090' FNL & 2510' FWL, Unit C, Sec 22 T23S R29E, Eddy, NM Bottom hole Location: 1090' FNL & 2510' FWL, Unit C, Sec 22 T23S R29E, Eddy, NM

1. Geologic Name of Surface Formation

a. Quaternary Aeolian Deposits

2. Estimated tops of geological markers:

a.	Lamar	3050'
b.	Bell Canyon	3100'
c.	Brushy Canyon	5500'
d.	Bone Spring	6800'
e.	First Bone Spring	7100'
f.	Total Depth	8600'

3. Estimated Depths of Anticipated Fresh Water, Oil or Gas

a.	Lamar	3050'	
b.	Bell Canyon	3100'	Oil
c.	Brush Canyon	5500'	Oil
d.	Bone Spring	6800'	
e.	First Bone Spring	7100'	Oil

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 415' and circulating cement back to surface. Freshwater will be protected by setting 8 5/8" casing at 3000' and circulating cement to surface. The Laguna Salado intervals will be isolated by setting 5 $\frac{1}{2}$ " casing to total depth and circulating cement above the base of the 8 5/8" casing.

4. Casing Program:

<u>Hole Size</u>	<u>Interval</u>	OD Csg	<u>Weight</u>	<u>Collar</u>	Grade
17 ½"	$\bar{0}$ ' - 300'	13 3/8"	48#	ST&C	H-40 WITNESS
11"	300' - 3000'	8 5/8"	32#	ST&C	J-55 WITNER
7 7/8"	3000'- 6900 '	5 1/2"	15.5#	ST&C	J-55
	8600'				

5. Cement Program:

a.	13 3/8"	Surface	Cement to surface with 100 sx Poz $35:65 + 2\%$ CaCl + $\frac{1}{4}$ lb/sx Cello Flakes, tail with 200 sx Cl C w/2% CaCl.
b.	8 5/8"	Intermediate	Cement to surface with 650 sx Poz 35:65 + 15% salt + ¼ lb/sx Cello Flakes, tail with 200 sx Cl C + ¼ lb/sx Celloflakes.

c. $5\frac{1}{2}$ " Production Cement with 400 sx Class H + 3% salt + $\frac{1}{4}$ lb/sx Celloflakes, tail w/400 sx Cl H + 5% salt + $\frac{1}{4}$ lb/sx Celloflakes.

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 8 5/8" casing shoe.

6. **Pressure Control Equipment:**

Exhibit "E". A Blowout Preventor (no less than 900 Series 3000 PSI working pressure) consisting of double ram type preventor with bag type preventor. Units will be hydraulically operated. Exhibit E-1 Choke Manifold and Closing Unit. Blind rams on top, pipe rams on bottom to correspond with size of drill pipe in use. BOP will be tested as well as choke manifold. BOP will be worked at least once a day while drilling & blind ram will be worked on trips when no drill pipe is in the hole. Full opening stabbing valve and upper Kelly cock will be utilized. Anticipated BHP 3000 PSI and 125 degree BHT. Note: A 2000# drilling head will be installed on the 13 3/8" & tested to 1215# (70% burst rating) with the rig pump.

7. Proposed Mud Circulation System

<u>Depth</u>	<u>Mud Wt.</u>	<u>Visc</u>	<u>Fluid Loss</u>	Type System
0' - 300'	8.8	34-36	NC	Fresh Water
300' - 3000'	10.0	28	NC	Brine Water
3000' – TD	10.0	28	NC	Fresh Water

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

8. Testing, Logging, and Coring Program:

- CNL-FDC, Gamma Ray, Caliper from TD to base of intermediate casing.
- AIT-Dual Laterolog Micro SFL from TD to base of intermediate casing.
- Gamma Ray, Neutron, Caliper to surface.
- Mud Logger on from 2800' to TD (Two man unit)
- Side wall cores taken between 3100'-6700' in Laguna Salado where shows occur.

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 3000 psi and Estimated BHT 135°.

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.

11. Other Facets of Operations:

After running casing, cased hole gamma ray neutron collar logs may be run from total depth over possible pay intervals. The Laguna Salado pay will be perforated stimulated. The well will be swab tested and potentialed as an oil well.

SURFACE USE AND OPERATING PLAN

Devon Energy Production Co., LP Laguna Salado 22 Federal 2 Lot C, Sec 22 T23S-R29E 1090 FNL & 2510' FWL Eddy County, New Mexico

- 1. <u>Existing Roads:</u> Area maps are included and show existing roads and proposed roads. All existing roads will be maintained in a condition equal to or better than current conditions.
 - A. Exhibit A shows the proposed well site as staked
 - B. From mile marker #4 on State Hwy 128, go east on Hwy 128 for 0.4 mile to Co. Rd. 793; thence south on 793 for 3.5 miles to lease road; thence west for 3.0 miles; thence north for 1.0 mile to location.

If a new access road will be required, it will be constructed as follows:

- C. The access road will be crowned and ditched to a 14' wide travel surface with a 30' right-of-way. This Right of Way will be used for flow lines and power lines.
- D. Gradient on all roads will be less than 1.00%
- E. There will be turnouts as needed.
- F. If needed, road will be surfaced with a minimum of 6" of compacted caliche. This material will be obtained from a local source.
- G. Earthwork will be as required by field conditions.
- H. Culverts in the access road will not be used.

2. LOCATION AND TYPE OF WATER SUPPLY

Water will be purchased locally from a private source and trucked over the access roads or piped in flexible lines laid on top of the ground.

3. SOURCES OF CONSTRUCTION MATERIALS

A. If needed, construction materials will be obtained from the drill site's excavations or from a local source. These materials will be transported over the access route as shown on Exhibit "A".

4. METHODS FOR HANDLING WASTE DISPOSAL

- A. Drill cuttings will be disposed of in the reserve pit.
- B. Trash, waste paper, and garbage will either be contained in a fenced trash trailer or in a trash pit, fenced with mesh wire to prevent wind-scattering and will be buried at least 36" deep within a reasonable period of time.
- C. Salts remaining after completion of the well will be picked up by the supplier, including broken sacks.
- D. Sewage from trailer houses will drain into holes with minimum depth of 10'. These holes will be covered during drilling and backfilled upon completion.
- E. Remaining drilling fluids will be allowed to evaporate in the reserve pit until the pit is dry enough for closing pursuant to OCD rules and guidelines. Water produced during testing of the well will be disposed of in the reserve pit. Oil produced during testing of the well will be stored in test tanks until sold and hauled from the site.

5. WELL SITE LAYOUT

- A. Exhibit "D" shows the proposed well site 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 and the reserve pits is proposed to be unlined unless subsurface condition encountered during pit construction indicate that lining is needed for lateral containment of fluids.
- D. The reserve pit is to be lined with a synthetic 12 mil liner. Pit liner will extend a minimum 2' 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 are ceased. If the well is a producer, the reserve pit fence will be torn down and the reserve pit and those areas of the location not essential to production facilities will be reclaimed and seeded, as closely as possible, to BLM requirements.

7. PLANS FOR RESTORATION OF SURFACE

Rehabilitation of the location and reserve pit will start in a timely manner after all drilling operations cease. The type of reclamation will depend on whether the well is a producer or a dry hole.

However, in either event, the reserve pit will be allowed to dry properly. The pit will be closed pursuant to OCD rules and guidelines. Revegetation procedures will comply with BLM standards.

If the well is a dry hole, the pad and road area will be contoured to match, as closely as possible, the existing terrain. Topsoil will be spread to the extent possible. Revegetation will comply with BLM standards.

Should the well be a producer, the previously noted procedures will apply to those areas, which are not required for production facilities.

8. OTHER INFORMATION:

- A. Topography: The proposed well site and access road consists of sand dunes with native grasses and catclaw.
- B. The surface is owned by the U. S. Department of the Interior (Bureau of Land Management).
- C. An archaeological survey will be conducted for the location and road and will be submitted to the BLM office in Carlsbad, New Mexico
- D. Residences and Other Structures: None in the immediate area, except oil production facilities.
- E. Land Use: Cattle grazing
- F. Surface ownership: BLM, Carlsbad, N.M.

OPERATORS REPRESENTATIVE:

Devon Energy Production Company, LP 20 North Broadway, Ste 1500 Oklahoma City, OK 73102

James BlountOperations Engineering AdvisorWork Phone(405)228-4301Home Phone(405)348-0102Cellular(405)834-9207

Certification

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

Signed:		Date:
	Stephanie A. Ysasaga Senior Engineering Technician	
	/ / /	

ate: October 5th, 2005

Attachment to Exhibit #1 NOTES REGARDING BLOWOUT PREVENTERS Devon Energy Production Company, LP Laguna Salado 22 Federal 2 Surface Location: 1090' FNL & 2510' FWL, Unit C, Sec 22 T23S R29E, Eddy, NM Bottom hole Location: 1090' FNL & 2510' FWL, Unit C, Sec 22 T23S R29E, 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 3000 psi working pressure.
- 4. All fittings will be flanged.
- 5. A full bore safety valve tested to a minimum 3000 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.

MINIMUM BLOWOUT PREVENTER REQUIREMENTS

3,000 pal Working Pressure

3 MWP

	STACK	REQUIREME	ENTS	
No.	llem		Min. 1.D.	Min. Nominal
1	Flowline			
2	Fill up line			2*
3	Drilling nipple			
4	Annular preventer			
5	Two single or one dual hy operated tarms	draulically		
63	Drilling speel with 2" min. 3" min choke line outlets	kill line and		
60	2" min. kill line and 3" ml outlets in sam, (Alternate			
7	Valvø	Gale () Plug ()	3-1/8*	
8	Gals valve-power opera	led	3-1/8-	·
9	Line to choke manifold			3*
10	Valves	Gale () Plug ()	2-1/16*	
11	Check valve		2-1/15-	
12	Casing head			
13	Valve	Gale C Plug C	1-13/16*	
14	Pressure gauge with near	lle valve		
15	Kill line to rig mud pump n	blolinen		2'



CONFIGURATION

OPTIONAL 16 Flanged valve 1-13/15"

CONTRACTOR'S OPTION TO FURNISH:

- 1.All equipment and connections above bradenhead or casinghead, Working pressure of preveniers to be \$,000 psi, . ໜ້າໂສນສ.
- . 2.Automatic accumulator (60 gallon, minimum) capable of closing BOP in 30 seconds or less and, holding them closed against Juli rated working pressure,
 - 2.BOP controls, to be located near drillers position.
 - 4.Kelly equipped with Kelly cock.
 - 5-Inside blowout prevventer or its equivalent on derrick floor at all times with proper threads to fit pipe being used.
 - 6.Kally saver:sub equipped with rubber casing protector at all times.
 - 7.Plug type blowout preventer lester.
 - S.Extra set plps rams to fit drill pipe in use
 - on location at all times.
 - 9.Type RX ring gaskets in place of Type R.

MEC TO FURNISH:

- 1-Bradenhead of casinghead and side valves. 2.Wear bushing, if required.

GENERAL NOTES:

۰.

- 1. Deviations from this drawing may be made only with the express permission of MEC's Drilling Manager,
- 2.All connections, valves, littings, piping, etc., subject to well or pump pressure must be flanged (suffable clamp connections acceptable) and have minimum working pressure equal to rated working pressure of preventers up through chore. Valves must be full opening and suitable for high pressure mud service.
- 3. Controls to be of standard design and each marked, showing opening and closing position.
- 4. Chokes will be positioned so as not to hamper or delay changing of choke beans, Replaceable parts for adjustable choke, other bean sizes, relainers, and choke wrenches to be conveniently focated for immediate use.
- 5.All valves to be equipped with handwheels or handles ready for immediate use.
- 5. Choke lines-must be suitably anchored,

- 7.Handwheets and extensions to be connected and ready for use."
- 8. Valves adjacent to drilling spool to be kept open. Use outside valves except for emergency.
- 9.All seamless steel control piping (3000 pal working pressure) to have flexible joints to avoid stress. Hoses will be permitted_
- 10.Casinghead connections shall not be used except in case of emergency.
- 11.Do not use kill line for routine fill-up operations,

MIHIMUM CHOKE MANIFOLD 3,000, 5,000 and 10,000 PSI Working Pressure





			MINI	NUM REOL	REMENT	5				
	[3,000 MWP			5,000 HWP			10,000 MWP		
No.		I.D.	NOMINAL	RATING	1.0.	NOMINAL	RATING	1.0.	HOMINAL	BATING
1	Line hom drilling spool		3.	3,000		3-	5,000		3.	10,000
. 2	Cross 3" #3" #3"#2"			3,000			\$,000			
	Cress 3" 13" 13" 13"									10,000
3	Valves(I) Gale [] Plug ()[2]	3-1/8-		1,000	J-1/8*		5,000	3-1/8-		10,000
4	Gate () Valve Plug ()(2)	1-13/16*		3,000	1-13/167		5,000	1-13/16*		10,000
43	Valves(1)	2-1/16*		3,000	2-1/16*		5,000	3-1/8"		10.000
5	Pressure Gauge			3,000			5,000			10,000
5	Valves Gate C Plug (2)	3-1/8-		000,C	3-1/8-		5,000 、	J-1/8"		10,000
7	Adjustable Choke[3]	2*		3,000	2*		5,000	Z*		10.000
3	Adjustable Choke	1*		3,000	1*		5,000	Z*		10,000
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12	Lines -		3.	1,000		3-	1,000	•	3.	2,000
13	Lines .	•	3.	1,000		3-	1,000	•	3-	2,000
14	Aemote reading compound standpipe pressure gauge			3,000			\$,000	•		10,000
15	Gas Separator		215			2'x5"			2'x5'	
16	Line		1	1,000		4*	1,000		e	2,000
17	Yalves Gele [] Piug [][2]	3-1/8*		3,000	3-1/8*		\$,000	3-1/8"		10,000

(1) Only one required in Class 3M.

[2] Gale valves only shall be used for Class TOM.

(3) Remote operated hydrovic choke required on 5,000 pal and 10,000 pai for driling.

EQUIPMENT SPECIFICATIONS AND INSTALLATION INSTRUCTIONS

1. All connections in choke manifold shall be welded, studded, llanged or Cameron clamp of comparable rating.

2. All flanges shall be API 68 or 68X and ring gaskets shall be API FIX or 8X. 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 con-Junction with the standpipe pressure gauge.
- 6. Line from dritting spool 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 loss,
- 7. Discharge lines from chokes, choke bypass and from top of gas experietor should vent as far as practical from the woll.

SETOND SUBSTRUCTURE .

NESCRUE PIT

EXHIBIT#

1



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EXHIBIT "E"



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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.

UNITED STATES DEPARTMENT OF THE INTERIOR Bureau of Land Management Roswell Field Office 2909 West Second Street Roswell, New Mexico 88201-1287

Statement Accepting Responsibility for Operations

Operator Name: Street or Box: City, State: Zip Code: Devon Energy Production Company, LP 20 North Broadway, Suite 1500 Oklahoma City, Oklahoma 73102-8260

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

40 acres 22-T23S-R29E

NM-66425

Lease No.:

Formation(s):

Bond Coverage:

BLM Bond File No.:

Authorized Signature:

Legal Description of Land:

y

Laguna Salado

Nationwide

CO-1104

Stephanie A. Ysasaga Senior Engineering Technician

Date:

Title:

10/05/05

CONDITIONS OF APPROVAL - DRILLING

Operator's Name:	Devon Energy Production Company, L.P.
Well Name & No.	Laguna Salado 22 Federal #2
Location:	1090' FNL, 2510' FWL, Section 22, T. 23 S., R. 29 E., Eddy County, New Mexico
Lease:	NM-66425

I. DRILLING OPERATIONS REQUIREMENTS:

1. The Bureau of Land Management (BLM) is to be notified at the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (505) 361-2822 for wells in Eddy County in sufficient time for a representative to witness:

- A. Well spud
- B. Cementing casing: 13-3/8 inch 8-5/8 inch 5-1/2 inch
- C. BOP tests

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. Submit a Sundry Notice (Form 3160-5, one original and five copies) for each casing string, describing the casing and cementing operations. Include pertinent information such as; spud date, hole size, casing (size, weight, grade and thread type), cement (type, quantity and top), water zones and problems or hazards encountered. The Sundry shall be submitted within 15 days of completion of each casing string. The reports may be combined into the same Sundry if they fall within the same 15-day time frame.

4. The API No. assigned to the well by NMOCD shall be included on the subsequent report of setting the first casing string.

5. Gamma-Ray/Neutron logs shall be run from the base of the Salado formation to the surface; cable speed not to exceed 30 feet per minute.

II. CASING:

1. The <u>13-3/8</u> inch surface casing shall be set at <u>approximately 300 feet</u> and cement circulated to the surface. If cement does not circulate to the surface the appropriate BLM office shall be notified and a temperature survey or cement bond log shall be run to verify the top of the cement. Remedial cementing shall be completed prior to drilling out that string.

2. The minimum required fill of cement behind the <u>8-5/8</u> inch intermediate casing is <u>to be circulated to the</u> <u>surface</u>.

3. The minimum required fill of cement behind the <u>5-1/2</u> inch production casing is <u>to be circulated to the</u> <u>surface</u>.

4. Whenever a casing string is cemented in the R-111-P Potash Area, cement shall be allowed to stand a minimum of twelve (12) hours under pressure and a total of twenty-four (24) hours before drilling the plug or initiating tests.

III. PRESSURE CONTROL:

1. All BOP systems and related equipment shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2. The BOP and related equipment shall be installed and operational before drilling below the <u>13-3/8</u> inch casing shoe and shall be tested as described in Onshore Order No. 2. Any equipment failing to test satisfactorily shall be repaired or replaced.

² 2. Minimum working pressure of the blowout preventer and related equipment (BOPE) shall be <u>3000</u> psi.

3. A variance to test the BOP's to 1200 psi with the rig pumps before drilling out of the 13-3/8 inch surface casing shoe is granted.

4. The appropriate BLM office shall be notified in sufficient time for a representative to witness the tests.

- The tests shall be done by an independent service company.
- The results of the test shall be reported to the appropriate BLM office.
- Testing fluid must be water or an appropriate clear liquid suitable for sub-freezing temperatures. Use of drilling mud for testing is not permitted since it can mask small leaks.
- Testing must be done in a safe workman-like manner. Hard line connections shall be required.

10/12/05 - rev acs



Devon Energy Corporation 20 North Broadway Oklahoma City, Oklahoma 73102-8260 Fax 405-552-8113

March 10, 2006

New Mexico Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505 Attn: Michael Stogner

Re: Laguna Salado 22 Federal #2 Section 22-T23S-R29E Eddy County, New Mexico

Gentlemen:

Devon Energy Production Company, L.P. (Devon), as Operator, intends to drill the referenced Delaware well to a depth of approximately 6,850'. Devon initially attempted to stake and permit this well at numerous orthodox locations. However, due to the proximity of the location to the Laguna Salado, the Bureau of Land Management (BLM) has required Devon to move the location. The closest drillable location as approved by the BLM is located 1090' FNL & 2510' FWL which is an unorthodox location as it is closer than 330' to the outer boundary of the designated spacing unit pursuant to the Statewide Pool Rules.

Inasmuch as this well will be producing from an unorthodox location from that permitted by the Statewide Pool Rules, Devon respectfully requests that the Commission administratively approve this application for an unorthodox location in accordance with Division Rule 104(F)(3). Devon's records reflect that, in addition to Devon, Chesapeake Exploration Limited Partnership, Pogo Producing Company, and Liberty Energy Corporation are the owners of the operating rights under NMNM-66425 covering all of said Section 22 and are the only parties affected by this application.

Attached you will find a land plat of the area affected by this application, a Lower Brushy Canyon F structure map, a State of New Mexico form C-102 and a Basin Surveys map which reflects the proximity of Laguna Salado to this location.

If there are any questions or if additional information is required feel free to call me at (405) 552-4633.

Yours very truly,

DEVON ENERGY PRODUCTION COMPANY, L.P.

Ken Gray

Senior Land Advisor

Kg/ Enclosure

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

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DISTRICT II 811 South First, Artesia, NM 88210

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV 2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico

Energy, Minerals and Natural Resources Department

003152

Form C-102 Revised March 17, 1999

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

OIL CONSERVATION DIVISION

2040 South Pacheco

Santa Fe, New Mexico 87504-2088

D AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number		Pool Code			Pool Name Laguna Salado Field					
Property Code								Well Number		
Froperty Lode		Property Name LAGUNA SALADO "22" FEDERAL						2		
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Devon Energy Corporation 20 North Broadway Oklahoma City, Oklahoma 73102-8260 Fax 405-552-8113

March 10, 2006

Chesapeake Exploration Limited Partnership 6100 N. Western Oklahoma City, OK 73118

Re: Laguna Salado 22 Federal #2 Section 22-T23S-R29E Eddy County, New Mexico

Gentlemen:

Attached you will find Devon Energy Production Company, L.P.'s ("Devon") administrative application for approval of an unorthodox well location covering the referenced Delaware test well. As operator under the governing Joint Operating Agreement, Devon's records indicate that your company is the owner of operating rights in an offset spacing unit and are entitled to notice of this application in accordance with Division Rule 104 (f). Objections to this application should be submitted to the NMOCD. If you have no objection to this application, please so indicate by signing and returning one copy of this letter to the undersigned.

If there are any questions or if additional information is required, feel to call me at (405) 552-4633.

Yours very truly,

DEVON ENERGY PRODUCTION COMPANY, L.P.

llen Drang

Ken Gray *V* Senior Land Advisor

KG: Enclosures

Chesapeake Exploration Limited Partnership has no objection to this administrative application for unorthodox location.

By:	

Title: _____

Date: _____



Devon Energy Corporation 20 North Broadway Oklahoma City, Oklahoma 73102-8260 Fax 405-552-8113

March 10, 2006

Pogo Producing Company P. O. Box 10340 Midland, TX 79702-7340

Re: Laguna Salado 22 Federal #2 Section 22-T23S-R29E Eddy County, New Mexico

Gentlemen:

Attached you will find Devon Energy Production Company, L.P.'s ("Devon") administrative application for approval of an unorthodox well location covering the referenced Delaware test well. As operator under the governing Joint Operating Agreement, Devon's records indicate that your company is the owner of operating rights in an offset spacing unit and are entitled to notice of this application in accordance with Division Rule 104 (f). Objections to this application should be submitted to the NMOCD. If you have no objection to this application, please so indicate by signing and returning one copy of this letter to the undersigned.

If there are any questions or if additional information is required, feel to call me at (405) 552-4633.

Yours very truly,

DEVON ENERGY PRODUCTION COMPANY, L.P.

llen Dran

Ken Gray Senior Land Advisor

KG: Enclosures

Pogo Producing Company has no objection to this administrative application for unorthodox location.

By: _____

Title: _____

Date: _____



Devon Energy Corporation 20 North Broadway Oklahoma City, Oklahoma 73102-8260 Fax 405-552-8113

March 10, 2006

Liberty Energy Corporation 175 Berkeley Street, 8th Floor Boston, MA 02116

Re: Laguna Salado 22 Federal #2 Section 22-T23S-R29E Eddy County, New Mexico

Gentlemen:

Attached you will find Devon Energy Production Company, L.P.'s ("Devon") administrative application for approval of an unorthodox well location covering the referenced Delaware test well. As operator under the governing Joint Operating Agreement, Devon's records indicate that your company is the owner of operating rights in an offset spacing unit and are entitled to notice of this application in accordance with Division Rule 104 (f). Objections to this application should be submitted to the NMOCD. If you have no objection to this application, please so indicate by signing and returning one copy of this letter to the undersigned.

If there are any questions or if additional information is required, feel to call me at (405) 552-4633.

Yours very truly,

DEVON ENERGY PRODUCTION COMPANY, L.P.

ller fra

Ken Gray Senior Land Advisor

KG: Enclosures

Liberty Energy Corporation has no objection to this administrative application for unorthodox location.

By: _	

Title: _____

Date:	
2.400	