OCD-ARTESIA

Form 3160-3

FORM APPROVED

(August 1999) UNITED ST DEPARTMENT OF T BUREAU OF LAND M APPLICATION FOR PERMIT	OMB No. 100 Expires November 5. Lease Serial No. NMNM53218 6. If Indian, Allottee or Tribe	er 30, 2000	
1a. Type of Work: DRILL REENTER		7. If Unit or CA Agreement,	Name and No.
	ner Single Zone Multiple Zone LINDA GUTHRIE E-Mail: linda.guthrie@dvn.com	8. Lease Name and Well No. RIGHTHAND CANYON 9. API Well No. 30-015-33	35 FEDERAL 5
3a. Address 20 NORTH BROADWAY SUITE 1500 OKLAHOMA CITY, OK 73102	a. Address 20 NORTH BROADWAY SUITE 1500 3b. Phone No. (include area code) Ph: 405.228.8209		
4. Location of Well (Report location clearly and in accorded At surface SENW 2334FNL 1485FWL At proposed prod. zone NWNW 990FNL 660FWL	11. Sec., T., R., M., or Blk. a Sec 35 T21S R24E M SME: BLM	•	
14. Distance in miles and direction from nearest town or post 15 MILES WEST OF CARLSBAD, NM	office*	12. County or Parish EDDY	13. State NM
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No. of Acres in Lease	17. Spacing Unit dedicated to 324.00	o this well
 Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 	19. Proposed Depth 8600 MD TVD 8745 TVD mD	20. BLM/BIA Bond No. on	file
21. Elevations (Show whether DF, KB, RT, GL, etc. 3913 GL	22. Approximate date work will start 07/30/2004	23. Estimated duration 32 DAYS	, , , , , , , , , , , , , , , , , , ,
	24. Attachments CARLS	SBAD CONTROLLED WA	ATER BASIN
 The following, completed in accordance with the requirements on Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest Syst SUPO shall be filed with the appropriate Forest Service Office.) 	4. Bond to cover the operation Item 20 above). em Lands, the 5. Operator certification	ons unless covered by an existin	pe required by the
25. Signature (Electronic Submission)	Name (Printed/Typed) LINDA GUTHRIE		Date 06/16/2004
Title REGULATORY SPECIALIST			
Approved by (Signature) /s/ Joe G. Lara	Name (Printed/Typed) /s/ Joe G. I.	ara	Date (20/04
FIELD MANAGER	Office CARLSBAD FI		
Application approval does not warrant or certify the applicant hoperations thereon. Conditions of approval, if any, are attached.		ease which would entitle the app ROVAL FOR 1 Y	

Additional Operator Remarks (see next page)

Electronic Submission #32072 verified by the BLM Well Information System For DEVON ENERGY PRODUCTION CO L P, sent to the Carlsbad APPROVAL SUBJECTMENTED to AFMSS for processing by LINDA ASKWIG on 06/22/2004 (04LA0492AE)

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.

GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS **ATTACHED**

Witness Surface Casing.

Additional Operator Remarks:

Devon Energy Production Company, LP respectfully requests approval to drill a Penn oil well to TVD 8,600' for commercial quantities of oil. If the well is deemed noncommercial, the well bore will be plugged and abandoned per Federal regulations. Programs to adhere to onshore oil and gas regulations are outlined in the following exhibits and attachments.

No additional roads need to be built as the well will be drilled from an existing location.

District 1
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

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

Form C-144

June 1, 2004

Pit or Below-Grade Tank Registration or Closure

	k covered by a "general plan"? Yes 🔯 N r below-grade tank 🔯 Closure of a pit or below-g		
Operator:DEVON ENERGY PRODUCTION CO., LPTelepho Address:PO Box 250 Artesia, NM 88211			
Pit Type: Drilling ☑ Production ☐ Disposal ☐ Workover ☐ Emergency ☐ Lined ☑ Unlined ☐ Liner type: Synthetic ☑ Thickness 12 mil Clay ☐ Pit Volumebbl	Below-grade tank Volume:bbl Type of fluid: Construction material: Double-walled, with leak detection? Yes If n	RECEIVED	
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)	Less than 50 feet 50 feet or more, but less than 100 feet 100 feet or more	(20 points) SEP 0 9 7004 (0 points) SEP 0 PATESIA	
Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)	Yes No	(20 points) (0 points)	
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	Less than 200 feet 200 feet or more, but less than 1000 feet 1000 feet or more Ranking Score (Total Points)	(20 points) (10 points) (0 points)	
If this is a pit closure: (1) attach a diagram of the facility showing the pit's your are burying in place) onsite offsite foffsite, name of facility_remediation start date and end date. (4) Groundwater encountered: No Yattach soil sample results and a diagram of sample locations and excavations	es ☐ If yes, show depth below ground surface	description of remedial action taken including	
Additional Comments: Oct Location @ Righthana — As a condition of approval	d Canyon 35 Federa	11 #3 wellpad	
a detailed closure plan must be filed before			
Thereby closure may commence. the best of been/will be constructed or closed according to NMOCD guidelines [], Date: 09/08/04 Printed Name/Title_Linda Guthrie/ Regulatory Specialist_ Your certification and NMOCD approval of this application/closure does no otherwise endanger public health or the environment. Nor does it relieve the regulations.	a general permit , or an (attached) alternative Signature t relieve the operator of liability should the contents	s of the pit or tank contaminate ground water or	
Approval: Printed Name/Title	Signature	SEP 10 2004	

DISTRICT 1 1625 N. French Dr., Hobbs, NM 88240 DISTRICT II

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

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

811 South First, Artesia, NM 88210

OIL CONSERVATION DIVISION

2040 South Pacheco

☐ AMENDED REPORT

DISTRICT IV 2040 South Pacheco, Santa Fe. NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

Santa Fe. New Mexico 87504-2088

API Number	Pool Code	Pool Name	
ļ	33685	INDIAN BASIN UPPER PENN A	SSOC
Property Code	Prop	erty Name	Well Number
33372	RIGHT HAND CAN	IYON "35" FEDERAL	5
OGRID No.	0pera	itor Name	Elevation
6137	DEVON ENERGY PRO	DOUCTION COMPANY LP	3913'

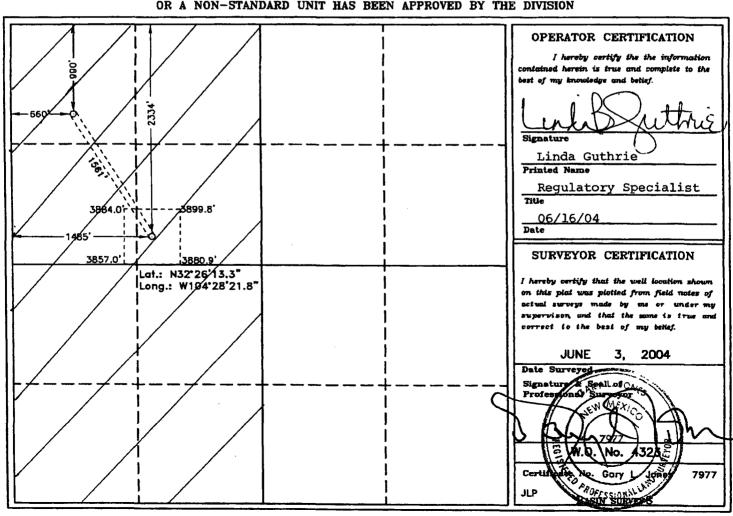
Surface Location

UL or lot No.	Section	Township	Range	Lot ldn	Feet from the	North/South line	Feet from the	East/West line	County
F	35	21-S	24-E		2334	NORTH	1485	WEST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section 35	Township 21-S	Range 24-E	Lot ldn	Feet from the 990'	North/South line	Feet from the 660'	Bast/West line WEST	County EDDY
Dedicated Acres	Joint o	r Infill Co	nsolidation	Code Or	der No.				

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



GOCD-ARTESIA

Form 3160-5 (August 1999)

Approved By

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB NO. 1004-0135

Expires: November 30, 2000

5. Lease Serial No. NMNM53218

SUNDRY N	OTICES AND F	KEPORIS ON V	VELLS
Do not use this	form for propos	als to drill or to I	re-enter an
abandoned well.	Use form 3160-	3 (APD) for such	proposals.

abandoned we	6. If Indian, Allottee or Tribe Name				
SUBMIT IN TR	IPLICATE - Other instruct	tions on reverse side.		7. If Unit or CA/Agree	eement, Name and/or No.
1. Type of Well Markov Oil Well ☐ Gas Well ☐ Other Control of Well ☐ Gas Well ☐ Other Control of Wel	ther			8. Well Name and No RIGHTHAND CA	NYON 35 FEDERAL 5
2. Name of Operator DEVON ENERGY PRODUCT	Contact:	INDA GUTHRIE E-Mail: linda.guthrie@dvn.com		9. API Well No.	
3a. Address 20 NORTH BROADWAY SU OKLAHOMA CITY, OK 7310		3b. Phone No. (include area cooperation) Ph: 405.228.8209 Fx: 405.552.4621	· .	10. Field and Pool, or INDIAN BASIN	r Exploratory I UPPER PENN ASSO
4. Location of Well (Footage, Sec.,	T., R., M., or Survey Description,		CEIVED	11. County or Parish	, and State
Sec 35 T21S R24E SENW 2	334FNL 1485FWL	SEP	1 3 2004	EDDY COUNT	Y, NM
		900	ARTESIA		
12. CHECK APP	ROPRIATE BOX(ES) TO	INDICATE NATURE OF	NOTICE, RI	EPORT, OR OTHE	ER DATA
TYPE OF SUBMISSION		ТУРЕ	OF ACTION		
Notice of Intent	Acidize	Deepen	□ Product	ion (Start/Resume)	□ Water Shut-Off
-	Alter Casing	☐ Fracture Treat	□ Reclama		☐ Well Integrity
☐ Subsequent Report	☐ Casing Repair	☐ New Construction	□ Recomp		Other Change to Original A
☐ Final Abandonment Notice	Change Plans	Plug and Abandon		arily Abandon	PD PD
	Convert to Injection	□ Plug Back	□ Water D	pisposal	
Attach the Bond under which the w following completion of the involve testing has been completed. Final A determined that the site is ready for Devon Energy Production Co to Drill to specify that this we and that cuttings will be disposed to a pit at the current location w protect the integrity of the we where the pit can be dug with	d operations. If the operation resubandonment Notices shall be file final inspection.) o., LP respectfully requests II will be drilled utilizing a closed of in a new pit to be different to	ults in a multiple completion or red only after all requirements, inc approval to amend the Apposed system for drilling flu ug at the Righthand Canyo e at the RHC 35-3 due to to to location has a producing proval to haul the cuttings to	ecompletion in a relation plication for Pelos of State of	new interval, a Form 31 n, have been completed ermit #3 dig	60-4 shall be filed once
	For DEVON ENERGY ommitted to AFMSS for pro-	Y PRODUCTION CO L P, secensing by LINDA ASKWIG o	nt to the Carlst on 09/08/2004 (0	ead 94LA0813SE)	
Name (Printed/Typed) LINDA G	UIHRIE	Title REGU	JLATORY SPE	CIALIST	
Signature (Electronic	Submission)	Date 09/08	/2004		
	THIS SPACE FO	R FEDERAL OR STATI	OFFICE US	SE	
Approved By	/s/ Joe G. Lara	Title FI	ELD MA	NAGER	BateSEP 2004

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.

Title

Office

CARLSBAD FIELD OFFICE

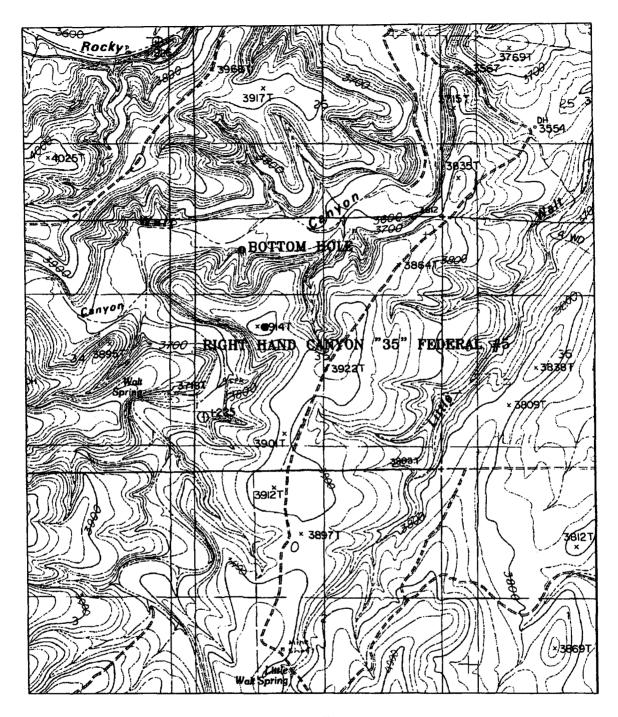
SECTION 35, TOWNSHIP 21 SOUTH, RANGE 24 EAST, N.M.P.M., NEW MEXICO. EDDY COUNTY, 600' 3899.8 3884.0' ø 150' NORTH OFF SET 3912.9' DEVON ENERGY PRODUCTION LP RIGHT HAND CANYON "35" FEDERAL #5 ELEV. = 3913' 150' EAST OFF SET 3911.5' NOT SET SAND 0 LAT.-N 32"26"13.3" LONG.-W104"28'21.8" 150' SOUTH OFF SET 3910.0 - EXIST. ROAD & PAD 3857.0 3880.9 600 100 100 200 FEET FROM THE INTERSECTION OF U.S HWY 285 AND STATE HWY. 137 GO SOUTHWEST ON STATE 137 APPROX 6 MILE TO A LEASE ROAD SOUTHEAST THEN APPROX 2.0 MILES SCALE: 1" = 100' TO THE ROAD TO THE WELL #4. DEVON ENERGY PRODUCTION CO. LP. RIGHT HAND CANYON 35 FED. #5 / Well Pad Topo RIGHTHAND CAYON "35" FEDERAL #5 LOCATED 2334' FROM

BASIN SURVEYS P.O. BOX 1786 - HOBBS, NEW MEXICO W.O. Number: 4323 Drawn By: JAMES PRESLEY

Date: 06/04/04 Disk: JLP #1 - DEV4323A THE NORTH LINE AND 1485' FROM THE WEST LINE OF SECTION 35, TOWNSHIP 21 SOUTH, RANGE 24 EAST,

N.M.P.M., EDDY COUNTY, NEW MEXICO.

Survey Date: 06/D3/04 Sheet Sheets



RIGHT HAND CANYON "35" FEDERAL #5
Located at 2334' FNL and 1485' FWL
Section 35, Township 21 South, Range 24 East,
N.M.P.M., Eddy County, New Mexico.



focused on excellence in the oilfield

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:	4323AA - JLP #1
Survey Date:	06/03/04
Scale: 1" =	2000'
Date: 06/04	-/04

DEVON ENERGY PRUDUCTION COMPANY LP.

DRILLING PROGRAM

Devon Energy Production Company, LP Righthand Canyon 35 Federal #5

Surface Location: 2334' FNL & 1485' FWL, Unit F, Sec 35 T21S R24E, Eddy, NM Bottom hole Location: 990' FNL & 660' FWL, Unit D, Sec 35 T21S R24E, Eddy, NM

1. Geologic Name of Surface Formation

a. Quaternery Aeolian Deposits

2. Estimated tops of geological markers:

a.	San Andres	1,137'
b.	Glorieta/Yeso	2,793'
c.	Bone Spring	3,095'
d.	Third Bone Spring	6,791'
e.	Wolfcamp	7,186'
f.	Cisco-Canyon	7,761'
g.	Top of dolomite	7,784'
h.	Base of dolomite	8,262'
i.	ETD	8,600'

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

a. San Andresb. Wolfcamp, Cisco, CanyonOil/Gas

4. Casing Program:

Hole Size	<u>Interval</u>	OD Csg	<u>Weight</u>	<u>Collar</u>	<u>Grade</u>	
25"	0' -40'	20"	Na	Na	Conductor	
12 1/4"	0' - 1,600'	9 5/8"	36#	ST&C	J-55 WITNESS	•
8 3/4"	0' - 8,600'	7"	23	LT&C	L-80/J55/	
					HCL80	

5. Cement & Setting Depth:

a.	20"	Conductor	Set 40' of 20" conductor and cement to surface with Redi-mix
b.	9 5/8"	Surface	Set 1600' of 9 5/8", 36#, H-40 ST&C casing. Cement with 400 sx
			of Class C 35:65 Poz + 2% CaCl + $\frac{1}{4}$ # Celoflakes/sx + $\frac{3}{5}$ x of
			Kolseal, + 6% Bentonite, tail in with 200 sx of Class C cement +
			2% Cacl, + 1/4# Celoflakes/sx. Circulate cement to surface.
c.	7"	Production	Set 8,600' of 7" casing as follows 1200' of 7", 23#, HLC-80
DV	Tools @	±4000' &	LT&C, 7400' of 7" 23# L8 LT&C casing. Cement with 200 sx of
±7	,625'		Class C 15:61:11 Super Mod C + 600 sx 60/40/ Poz Class C + 700
			sx 60/40/ Poz Class C, The cement volumes for the 7" casing will
			be revised pending the caliper measurement from open hole logs

6. Pressure Control Equipment:

The blowout preventor equipment (BOP) shown in Exhibit #1 will consist of a (3M system) double ram type (3000 psi WP) preventor and a bag-type (Hydril) preventor (3000 psi WP). Both units will be hydraulically operated and the ram type preventor will be equipped with blind rams on top and 4 1/2" drill pipe rams on bottom. Both BOP's will be installed on the 9 5/8" surface casing and utilized continuously until total depth is reached. The BOP will be pressure tested with the rig pump to 1200 psi prior to drilling out the 9 5/8" casing shoe. As per BLM Drilling Operations Order #2, prior to drilling out the 9 5/8" casing shoe, the BOP's and Hydril will be function tested.

Pipe rams will be operated and checked each 24 hour period and each time the drill pipe is out of the hole. These functional tests will be documented on the daily driller's log. A 2" kill line and 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 3000 psi WP rating.

7. Proposed Mud Circulation System

<u>Depth</u>	Mud Wt.	<u>Visc</u>	Fluid Loss	Type System
0' – 1600'	8.5 - 8.7	29-3 4	NC	Air or Fresh Water
1600' – TD	8.4 - 9.0	29-40	10-15	FW mud or Drispac
				system

Sufficient mud materials will be kept on location at all times in order to combat lost circulation, or unexpected kicks. In order to run DST's, open hole logs, & casing the viscosity and/or water loss may have to be adjusted to meet these needs.

8. Logging, Coring, and Testing Program:

- a. Open hole logs: Dual Induction, SNP, LDT, MSFL, Gamma Ray, Caliper from TD to 1600'. Run Gamma Ray, neutron from 1600' to surface.
- b. Mud Logger may be rigged up on hole at the request of the operator
- c. No cores or DST's are planned at this time.
- d. After running casing, cased hole Gamma Ray, Neutron Collar logs will be run from TD back to all possible productive zones

9. Potential Hazards:

a. No abnormal pressures or temperatures are foreseen. The anticipated bottom hole temperature at total depth is 144 degrees and maximum bottom hole pressure is 1000 psig. Hydrogen sulfide gas may be encountered in this area. A H2S Contingency plan will be available at the location and implemented prior to penetrating the Penn. Lost circulation intervals have been encountered in the Cisco-Canyon zones in adjacent wells.

10. Anticipated Starting Date and Duration of Operations:

a. The road and location were constructed for the drilling of a previous well, therefore there is no additional construction needed. Anticipated spud date will be as soon after BLM approval and as soon as a rig will be available. Move in operations and drilling are expected to take 32 days.

SURFACE USE PLAN

Devon Energy Production Company, LP

Righthand Canyon 35 Federal #5

Surface Location: 2334' FNL & 1485' FWL, Unit F, Sec 35 T21S R24E, Eddy, NM Bottom hole Location: 990' FNL & 660' FWL, Unit D, Sec 35 T21S R24E, Eddy, NM

1. Existing Roads:

- a. The well site and elevation plat for the proposed are reflected on Exhibit 2. The well was staked by Basin Surveys.
- b. All roads into the location are depicted on Exhibit 3.
- 2. Directions to Location: From the junction of US Hwy 285 and State 137, go southwesterly on 137 for 6.4 miles to a lease road left; then follow winding lease road for 2.2 miles to a cattle guard and lease road.
 - a. Exhibit #3 shows the existing roads. No new construction will be necessary.
 - b. No cattle guards, grates or fence cuts will be required. No turnouts are planned.
- 3. In the event the well is found productive, existing facilities will be utilized.

4. Methods of Handling Waste Material:

- a. Drill cuttings will be disposed of in the existing lined reserve pit.
- 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. Salts remaining after completion of well will be picked up by the supplier, including broken sacks.
- d. Waste water from living quarters will be drained into hole with a minimum of 10'. These holes will be covered during drilling and will be back filled when the well is completed. 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 closed. The pit will be closed pursuant to New Mexico OCD rules and guidelines. Water produced during completion will be put in reserve pits. Oil and condensate produced will be put in a storage tank and sold.

5. Well Site Layout

- a. Exhibit D shows the proposed well site layout.
- b. This location was utilized for the drilling of the Righthand Canyon 35 Federal #4.
- c. This exhibit indicates location of reserve and sump pits and living facilities.
- d. Mud pits in the active circulating system will be steel pits & the existing reserve pit is currently lined.
- 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. The reserve pit and those areas of the location not essential to production facilities will be reclaimed and seeded per BLM requirements.

6. Other Information:

- a. The soil is shallow, calcareous, and grayish-brown, loose to slightly compact, stony, silty loam overlying limestone bedrock: slopes consist primarily of limestone rock and small pockets of colluvium and alluvium.
- b. The surface and minerals are owned by the US Government and administered by the Bureau of Land Management. The surface is of limited use except for the grazing of livestock and the production of oil and gas.
- c. An archaeological survey has been conducted of the well pad location and the results were filed with the Bureau of Land Management in Carlsbad Field office.
- d. There are no dwellings within 2 miles of location.

Operators Representative:

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

Robert Elliott

Operations Engineer Advisor

Don Mayberry

Superintendent

Devon Energy Production Company, L.P.

20 North Broadway, Suite 1500

Post Office Box 250 Artesia, NM 88211-0250

Devon Energy Production Company, L.P.

Oklahoma City, OK 73102-8260

(505) 748-3371 (office)

(405) 228-8609 (office) (405) 323-4616 (Cellular)

(505) 746-4945 (home)

Certification

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access road; 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:

Linda Guthrie

Regulatory Specialist

Date:

June 16, 2004

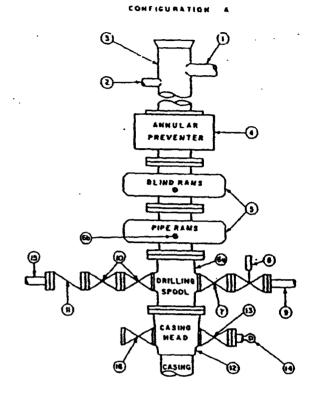
HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

- 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. Drillstem 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.
- 9. 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.

3 MWP

STACK REQUIREMENTS

No.	llem		Min, 1.D,	Min. Nominal
7	Flowline			
2	Fill up line			2"
3	Drilling nipple			
4	Annular preventer			
5	Two single or one dual hy operated rams			
6a	Drilling spool with 2" min 3" min choke line outlets			
6b	2" min. kill line and 3" m outlets in ram. (Alternate			
7	Valve	3-1/8"		
8	Gate valve—power opera	sted	3-1/8"	
9	Line to choke manifold			3.
10	Valves	Gate D Plug D	2-1/16*	
11	Check valve		2-1/16"	
12	Casing head			
13	Valve	Gate D Plug D	1-13/16"	
14	Pressure gauge with nee	edie valve		
15	Kill line to rig mud pump	manifold		5.



OPTIONAL					
16	Flanged valve		1-1;	3/16"	

CONTRACTOR'S OPTION TO FURNISH:

- All equipment and connections above bradenhead or casinghead. Working pressure of preventers to be 3,000 psi, minimum.
- Automatic accumulator (80 gallon, minimum) capable of closing BOP in 30 seconds or less and, holding them closed against full rated working pressure.
- 3.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.
- 5. Kelly saver-sub equipped with rubber casing protector at all times.
- 7. Plug type blowout preventer tester.
- 8. Extra set pipe 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 or casinghead and side
- 2. Wear bushing, if required.

GENERAL NOTES:

- Deviations from this drawing may be made only with the express permission of MEC's Oriting Manager.
- 2.All connections, valves, littings, plping, etc., subject to well or pump pressure must be flanged (suitable 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.
- 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 edjustable choke, other bean sizes, retainers, and choke wrenches to be conveniently located for immediate use.
- S.All valves to be equipped with handwheels or handles ready for immediate use.
- 6. Choke lines must be sultably anchored.

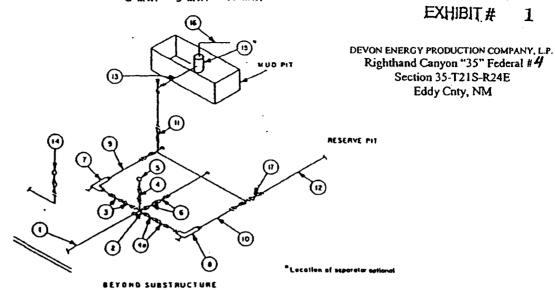
- 7. Handwheets and extensions to be connected and ready for use.
- Valves adjacent to drilling apool to be kept open. Use outside valves except for emergency.
- All seemiess sieel control piping (3000 psi working pressure) to have flexible joints to avoid stress. Hoses will be permitted.
- Casinghead connections shall not be used except in case of emergency.
- 11.Do not use kill line for routine fill-up operations.

MINIMUM CHOKE MANIFOLD _,000, 5,000 and 10,000 PSI Working Pressure

3 MWP - 5 MWP - 10 MWP

EXHIBIT#

Eddy Cnty, NM



			MINI	MUM REOU	REMENTS	;				
		3,000 MWP 5,000 MWP				10,000 MWP				
No.		I.D.	NOMINAL	RATING	I.D.	NOMINAL	RATING	1.0.	NOMINAL	RATING
1	Line from drilling spool	I	3-	3,000		3,	5,000		3.	10,000
2	Cross 3"x3"x3"x2"			3,000			5,000			
	Cross 3"x3"x3"x3"	J								10,000
3	Valves(1) Gate [] Plug [](2)	3-1/8*		3,000	3-1/8"		5,000	3-1/8*		10,000
4	Valve Gale []	1-13/16*		3,000	1-13/16*		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	1		10,000
6	Valves Plug □(2)	3-1/8*		3,000	3-1/8"		5,000	3-1/8"		10,000
7	Adjustable Choke(3)	S.		3,000	5.		5.000	5-		10,000
8	Adjustable Choke	1"		2,000	1°		5,000	5.		10,000
9	Line		3-	3,000		3.	5,000		3.	10,000
10	Line		5.	3,000		5.	5,000		3.	10,000
11	Valves Gate [] Plug [](2)	3-1/8*		3,000	3-1/8"		5,000	3-1/8*		10,000
12	Lines		3.	1,000		3-	1,000		3°	2.000
13	Lines		3-	1,000		3.	1,000		3.	2,000
14	Remote reading compound standpipe pressure gauge			3,000			5,000	·		10,000
15	Gas Separator		2'25'			2'x5'			2'x5'	
16	Line		4.	1,000		4.	1,000	1	(-	2,000
17	Valves Gele []	3-1/8"		3,000	3-1/8"		5,000	3-1/8"		10,000

- (1) Only one required in Class 3M.
- (2) Gate valves only shall be used for Class 10M.
- (3) Remote operated hydraulic choke required on 5,000 pst and 10,000 psi for drilling.

EQUIPMENT SPECIFICATIONS AND INSTALLATION INSTRUCTIONS

- 1. All connections in choke manifold shall be welded, studded, flanged or Cameron clamp of comparable rating.
- 2. All flanges shall be API 68 or 68X and ring gaskets shall be API RX or 8X. Use only 8X 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 menifold 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.
- 6. Line from drilling 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 tees.
- 7. Discharge lines from chokes, choke bypass and from top of gas separator should vent as far as practical from the well.

Attachment to Exhibit #1 NOTES REGARDING BLOWOUT PREVENTERS

Devon Energy Production Company, LP Righthand Canyon 35 Federal #5

Surface Location: 2334' FNL & 1485' FWL, Unit F, Sec 35 T21S R24E, Eddy, NM Bottom hole Location: 990' FNL & 660' FWL, Unit D, Sec 35 T21S R24E, 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 preventor 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 preventor 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.

DEVON Energy Corp 2401 Pecos Ave

Artesia NM 88210

Hydrogen Sulfide (H₂S) Contingency Plan

For

Righthand Canyon 35 Federal #5

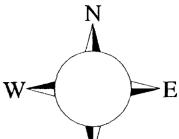
2334 FNL & 1485 FWL, Unit F, Sec-35 T-21S R-24E

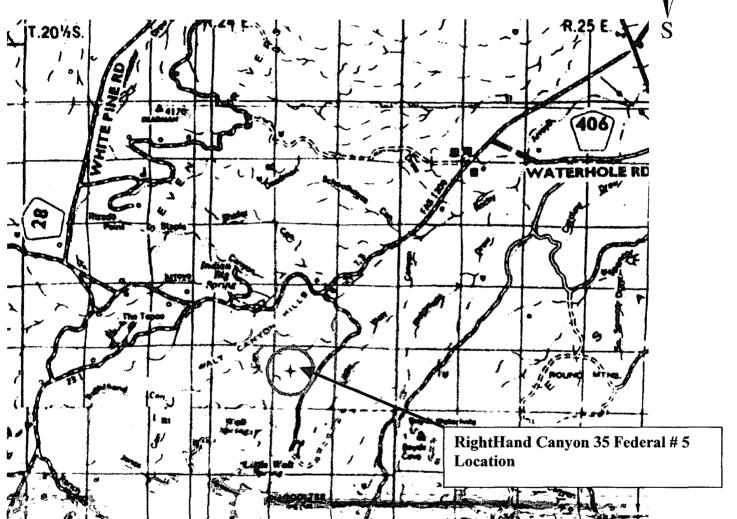
Eddy County NM

JUN 2 1 2004

Righthand Canyon 35 Federal #5

This is an open drilling site. H₂S monitoring equipment and emergency response equipment will be used within 500' of zones known to contain H₂S, including warning signs, wind indicators and H₂S monitor.





Assumed 100 ppm is OE = 3000': 100 ppm H2S concentration shall trigger activation of this plan.

Emergency Procedures

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

All responders must have training in the detection of H₂S, measures for protection against the gas, equipment used for protection and emergency response. Additionally, responders must be equipped with H₂S monitors and air packs in order to control the release. Use the "buddy system" to ensure no injuries during the response.

Ignition of Gas Source

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO₂). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever there is an ignition of the gas

Characteristics of H₂S and SO₂

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

Contacting Authorities

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

Devon Energy Corp. Company Call List

Artesia (505)	Cellular	Office	<u>Home</u>
Foreman – BJ Cathey Asst. Foreman – Bobby Jones Cecil Thurmond David Purdy Engineer – Robert Elliott	748-7447 748-7180 (432)631-2969	748-0176 748-0171 9(432)495-727	746-3194 887-1479 9 (432)683-0735
Agency Call List			
Eddy County (505)			
Artesia State Police	anning Committee)		746-2703 746-9888 911 746-2701 746-2122
Carlsbad State Police	Planning Committ	ee)	885-2111 887-7551 911 885-2111 887-3798
New Mexico Emergency 24 HRNational Emergency Resp	••••••	•••••	(505) 827-9126
Other			
Boots & Coots IWC	915) 699-0139 or (9 .(505) 746-2757	. ,	

Prepared in conjunction with Wade Rohloff of;

