EX-401

Form 3160-3 (April 2004)

OCD-ARTESIA

Month - Year MM? - 5 2007 OCD - ARTESIA, NIM

UNITED STATES DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

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

5. Lease Serial No. NM 013814

6. If Indian, Allotee or Tribe Name

			<u>-</u> }'		
la. Type of work: DRILL REENT	pe of work: DRILL REENTER			7 If Unit or CA Agreement, Name and No.	
lb. Type of Well: ☐Oil Well ☐Gas Well ☐Other	Single Zone Mult	tiple Zone	8. Lease Name and Well No Wolf Pack "1" Feder	J 4 7 7	
	245801		9. API Well No.	5465	
3a. Address 6824 Island Circle	3b. Phone No. (include area code)		10. Field and Pool, or Exploratory		
Midland, Tx 79767	432-553-1849		Henshaw, SW; Morrow		
4. Location of Well (Report location clearly and in accordance with an	ny State requirements.*)		11. Sec., T. R. M. or Blk. and	Survey or Area	
At surface 860' FNL & 660' FEL					
At proposed prod. zone ROSWE	II Controlled Water Basin		Sec 1, T17S, R29E		
14. Distance in miles and direction from nearest town or post office*			12. County or Parish	13. State	
	3 miles North of Loco Hills	8	Eddy	NM	
15. Distance from proposed* location to nearest	16. No. of acres in lease 17. Spacing Unit dedicated to this well				
property or lease line, ft. (Also to nearest drig. unit line, if any)	320 after Communitizng	N/2			
18. Distance from proposed location*	19. Proposed Depth	20. BLM/	BIA Bond No. on file		
to nearest well, drilling, completed, applied for, on this lease, ft. 200' (shallow prod)	11,000'	NME	000437		
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will st	art*	23. Estimated duration		
3689' G.L.	07/01/2007		40 days		
	24. Attachments				
The following, completed in accordance with the requirements of Onshor	re Oil and Gas Order No.1, shall be	attached to ti	nis form:		
1. Well plat certified by a registered surveyor.	4. Bond to cover	the operation	ns unless covered by an existing	g bond on file (see	
2. A Drilling Plan.	Item 20 above)		• " •	•	
3. A Surface Use Plan (if the location is on National Forest System SUPO shall be filed with the appropriate Forest Service Office).		e specific inf	formation and/or plans as may be	required by the	
25. Signature MS College	Name (Printed Typed)	'C CI	9TE Date	1/19/07	
PRESIDENT					
Approved by (Signature) /s/ James Stovall	Name (Printed Typed) Stoval		Date	3 2 6 2007	
FIELD MANAGER	Office CARL	FIELD OFFICE	1 4 D CUUI		
Application approval does not warrant or certify that the applicant hold	Is legal or equitable title to those rig	hts in the sul	ject lease which would entitle th	e applicant to	
onduct operations thereon. Conditions of approval, if any, are attached.			APPROVAL FOR		
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a cr States any false, fictitious or fraudulent statements or representations as t	rime for any person knowingly and to any matter within its jurisdiction.	willfully to n	nake to any department or agenc	y of the United	

*(Instructions on page 2)

SEE ATTACHED FOR CONDITIONS OF APPROVATIACHED

APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS

District 1 State of New Mexico Form C-102 1625 N. French Dr., Hobbs, NM 88240 Revised October 12, 2005 Energy, Minerals & Natural Resources Department District II Submit to Appropriate District Office 1301 W. Grand Avenue, Artesia, NM 88210 OIL CONSERVATION DIVISION State Lease- 4 Copies District III 1220 South St. Francis Dr. 1000 Rio Brazos Rd., Aztec, NM 87410 Fee Lease-3 Copies District IV Santa Fe, NM 87505 1220 S. St. Francis Dr., Santa Fe, NM 87505 AMENDED REPORT WELL LOCATION AND ACREAGE DEDICATION PLAT Pool Name API Number Marrow, Sle Property Code Property Name Well Number WOLFPACK "1" FEDERAL 1 OCRID No. Operator Name Elevation RSC RESOURCES, LIMITED PARTNERSHIP 3689' Surface Location UL or lot no. Section Township Lot Idn Feet from the North/South line Feet from the East/West line County 17 SOUTH 29 EAST, N.M.P.M. 1 860 A NORTH 660 **EDDY** EAST Bottom Hole Location If Different From Surface UL or lot no. Section Township Lot Idn | Feet from the | North/South line | Feet from the East/West line County **Dedicated Acres** Joint or Infill Consolidation Code Order No. 32*0* 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. OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete SURFACE LOCATION to the best of my knowledge and NEW MEXICO EAST NAD 1927 Y=679742.1 X=595814.1 belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a DETAIL voluntary pooling agreement or a 3687.6 3686.5 compulsory pooling order heretofore entered by the division. 0 3689.7 3691.9 KANDALL CATE Printed Name SURVEYOR CERTIFICATION I hereby certify that shown on this not was plotted from field notes of cathol surveys made to me or under key supervision, and the the same Man Motor best of Date of Signature Professiona

WO# 061201WL (LA)

RSC Resources Limited Partnership

Drilling and Operations Program

Wolf Pack "1" Federal Com # 1 860' FNL & 660' FEL Sec. 1, T17S, R29E, Eddy Co., NM

In accordance with Part 24 of Form 3160-3, Application For Permit To Drill, RSC Resources submits the following:

- 1. The geological surface formation is Permian.
- 2. The estimated tops of geologic markers are as follows:

Queen	2000	Wolfcamp	7450
San Andres	2750	Cisco	8800
Glorieta	4200	Strawn	10000
Tubb	Š 600	Atoka	10250
Abo	6300	Morrow	10750
		TD	11000

3. The estimated depths at which anticipated water, oil or gas formations are expected to be encountered:

San Andres	2700'	Oil
Glorieta	4000'	Oil
Strawn	9900′	Gas
Morrow '	10750′	Gas

No other formations are expected to give up oil, gas, or fresh water in measurable quantities. The surface fresh water sands will be protected by setting 13 3/8" casing at 400' and circulating cement back to surface. Any shallower zones above TD which contain commercial quantities of oil and/or gas will have cement circulated across them by inserting a float shoe joint into the 13 3/8 production casing which will be run at TD.

4. Proposed Casing Program:

Hole Size	Interval	OD Casing	Wt	Grade
17 1/2"	400	13 3/8"	48#	H-40 STC
12 ¼"	2700	9 5/8"	36#	J-55 STC
8 3/4"	11000′	5 ½ "	17#	P-110 STC

Proposed Cement Program:

13 3/8" Surface Casing: Cement w/ 400 sx Class C. Circulate to surface.

9 5/8" Intermediate Casing: Cement w/ 750 sx Class C. Circulate to surface.

5 1/2" Production Casing:

Cemented sufficient to cover 200' above all oil & gas

5. Pressure Control Equipment:

See Exhibit #1. RSC proposes to nipple up on the 13 3/8" casing with a 2M system, testing it to 1000# with rig pumps, then nipple up on the 9 5/8" casing with a 5M system, tested to 5000# before drilling out.

6. Mud Program: The applicable depths and properties of this system are as follows:

		Weight	Viscosity	Waterloss
Depth	Туре	(ppg)	(sec)	(cc)
400	Fresh Wtr (spud)	8.5	28	N.C.
2700	Brine	9.8-10.2	40-45	N.C.
11000	Cut Brine	8.6-9.4	28-36	N.C.

- 7. Auxiliary Equipment: Kelly Cock; Sub with full opening valve on floor; and drill pipe connections.
- 8. Testing, Logging and Coring Program:

No drillstem tests are anticipated.

The electric logging program will consist of Dual Laterolog Micro SFL, Spectral Density Dual Spaced Neutron Csnq Log, and Depth Control Log. No conventional coring is anticipated.

- 9. No abnormal pressures or temperatures are anticipated.
- 10. Anticipated starting date: As soon as possible after approval.

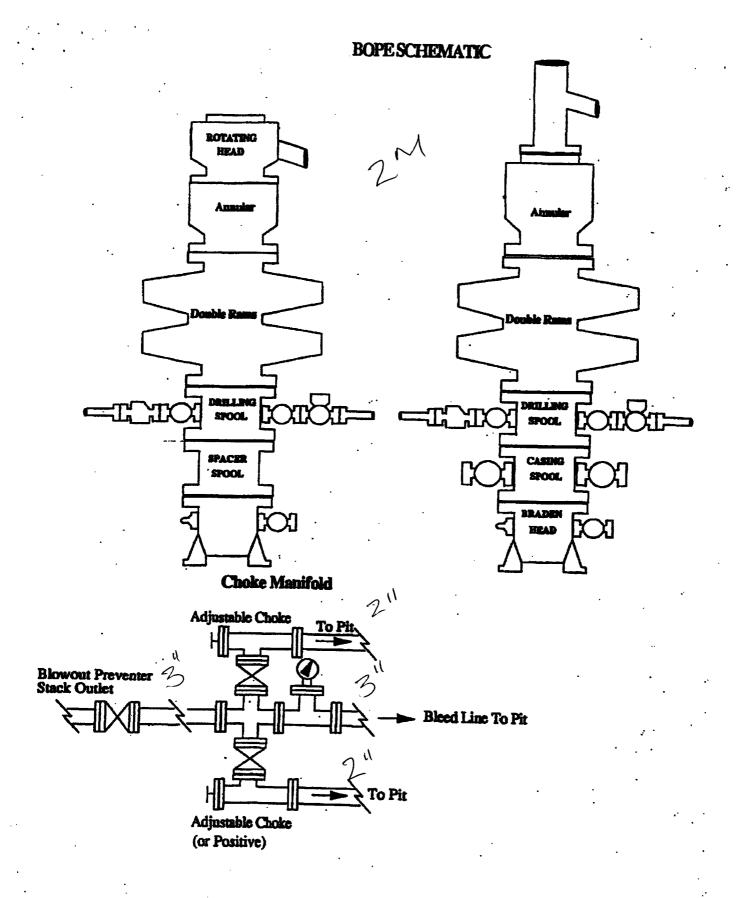
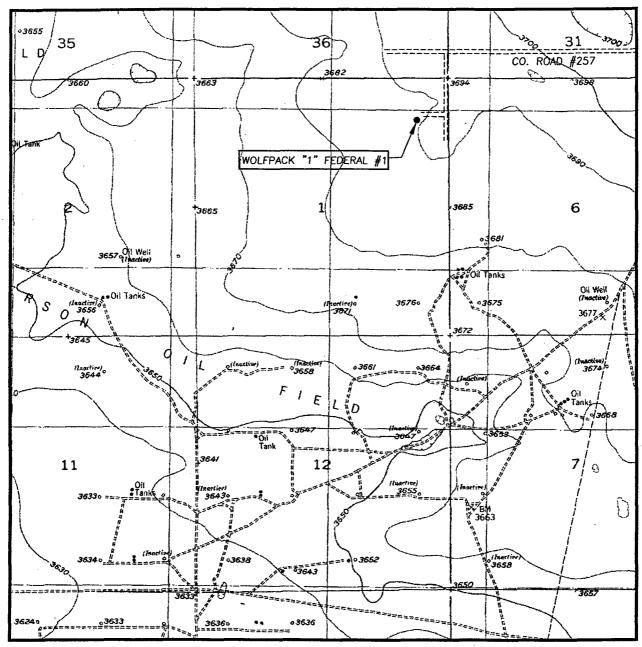


Exhibit One

LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL: RED LAKE SE, N.M. - 10'

SEC. 1 TWP. 17-S RGE. 29-E

SURVEY N.M.P.M.

COUNTY EDDY

DESCRIPTION 860' FNL & 660' FEL

ELEVATION 3689

RSC RESOURCES.

OPERATOR LIMITED PARTNERSHIP

LEASE WOLFPACK "1" FEDERAL #1

U.S.G.S. TOPOGRAPHIC MAP RED LAKE SE, N.M. Asel Surveying & Consulting

P.O. BOX 393 - 310 W. TAYLOR HOBBS, NEW MEXICO - 505-393-9146



RSC Resources Limited Partnership

Surface Use Plan

Wolf Pack "1" Federal Com # 1 860' FNL & 660' FEL Sec. 1, T17S, R29E, Eddy Co., NM

This plan is submitted with Form 3160-3, Application for Permit to Drill, covering the above described well. The purpose of this plan is to describe the location of the proposed well, the proposed construction activities and operations plan, the magnitude of the surface disturbance involved and the procedures to be followed in rehabilitating the surface after completion of the operations, so that a complete appraisal can be made of the environmental effect associated with the operations.

1. EXISTING ROADS:

Exhibit 2 is a portion of a topo map showing the well and roads in the vicinity of the proposed location. The proposed wellsite and the access route to the location are indicated in red on Exhibit 2.

DIRECTIONS:

From Loco Hills at the intersection of Hwy 82 and County Rd 217, go north on 217 for 3.7 miles, turn west/left on County Rd 257(Mallett Rd) for 2 miles, turn south/left on lease road for 0.25 miles, turn west/right on lease road for 0.1 mile to location

2. PLANNED ACCESS ROAD:

An existing access road is already in place. The road is constructed as follows:

- A. The maximum width of the running surface will be 10'. The road will be crowned and ditched and constructed of 6" of rolled and compacted caliche. Ditches will be at 3:1 slope and 4 feet wide. Water will be diverted where necessary to avoid ponding, prevent erosion, maintain good drainage, and to be consistent with local drainage patterns. BLM may specify any additions or changes during the onsite inspection.
- B. The average grade will be less than 1%.
- C. No turnouts are planned.
- D. No culverts, cattleguard, gates, low-water crossings, or fence cuts are necessary.
- E. Surfacing material will consist of native caliche. Caliche will be obtained from the nearest BLM-approved caliche pit. Any additional materials that are required will be purchased from the dirt contractor.
- F. The proposed access road as shown in Exhibit 2 has been centerline flagged by Asel Surveying and Consulting.

RSC Resources Limited Partnership

HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

I. HYDROGEN SULFIDE TRAINING

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on this well:

- A. The hazards and characteristics of hydrogen sulfide (H₂S).
- B. The proper use and maintenance of personal protective equipment and life support systems.
- C. The proper use of H₂S detectors, alarms, warning systems, briefing areas, evacuation procedures, and prevailing winds.
- D. The proper techniques for first aid and rescue procedures.

In addition, supervisory personnel will be trained in the following areas:

- A. The effects of H₂S on metal components. If high tensile tubulars are to be used, personnel will be trained in their special maintenance requirements.
- B. Corrective action and shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.
- C. The contents and requirements of the H₂S Drilling Operations Plan and the Public Protection Plan.

There will be an initial training session just prior to encountering a known or probable H₂S zone (within 3 days or 500 feet) and weekly H₂S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H₂S Drilling Operations Plan and the Public Protection Plan. This plan shall be available at the well site. All personnel will be required to carry documentation that they have received the proper training.

II. H2S SAFETY EQUIPMENT AND SYSTEMS

Note: All H₂S safety equipment and systems will be installed, tested, and operational when drilling reaches a depth of 500 feet above, or three days prior to penetrating the first zone containing or reasonably expected to contain H₂S.

A. Well Control Equipment:

Flare line.

Choke manifold.

Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit.

Auxiliary equipment to include: annular preventer, mud-gas separator, rotating head.

B. Protective equipment for essential personnel:

Mark II Surviveair 30-minute units located in the dog house and at briefing areas.

C. H₂S detection and monitoring equipment:

2 - portable H₂S monitor positioned on location for best coverage and response. These units have warning lights and audible sirens when H₂S levels of 20 ppm are reached.

D. Visual warning systems:

Caution/Danger signs shall be posted on roads providing direct access to location. Signs will be painted a high visibility yellow with black lettering of sufficient size to be readable at a reasonable distance from the immediate location. Bilingual signs will be used, when appropriate. See example attached.

E. Mud Program:

The mud program has been designed to minimize the volume of H₂S circulated to the surface.

F. Metallurgy:

All drill strings, casings, tubing, wellhead, blowout preventers, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H₂S service.

G. Communication:

Company vehicles equipped with cellular telephone and 2-way radio.

WARNING

YOU ARE ENTERING AN H₂S AREA AUTHORIZED PERSONNEL ONLY

- 1. BEARDS OR CONTACT LENSES NOT ALLOWED
- 2. HARD HATS REQUIRED
- 3. SMOKING IN DESIGNATED AREAS ONLY
- 4. BE WIND CONSCIOUS AT ALL TIMES
- 5. CK WITH RSC RESOURCES, L.P. MAIN OFFICE

RSC Resources Limited Partnership

1-432-553-1849