N.M. Oil Cons. DIV-Dist. 2 1301 W. Grand Avenue Artesia, NM 88210

FORM APPROVED

Form 3160-3 (April 2004)

OMB No. 1004-0137 Expires March 31, 2007 UNITED STATES 5. Lease Serial No. DEPARTMENT OF THE INTERIOR **USANMNM 103584 BUREAU OF LAND MANAGEMENT** 6. If Indian, Allotee or Tribe Name APPLICATION FOR PERMIT TO DRILL OR REENTER 7 If Unit or CA Agreement, Name and No. DRILL REENTER la. Type of work: 8. Lease Name and Wellaho BOX CAR BILLY FED. "29" #1 Oil Well Gas Well Multiple Zone lb. Type of Well: Single Zone 9. API Well No. Name of Operator DAVID H. ARRINGTON OIL & GAS, INC. 30-015-3361 3b. Phone No. (include 3a. Address 214 W. TEXAS, SUITE 400 MECEIVED 10. Field and Pool, or Exploratory MIDLAND, TEXAS 79701 432.682.6685 WILDCAT MISSISSIPPIAN SEP 0 9 2004 11. Sec., T. R. M. or Blk. and Survey or Area 4. Location of Well (Report location clearly and in accordance with any State requirements.*) 660' FSL & 1150' FWL At surface 999-APTERIA SECTION 29, T20S-R23E,NMPM At proposed prod. zone 12. County or Parish 13. State 14. Distance in miles and direction from nearest town or post office* 18 MILES SOUTH OF LOPE, NEW MEXICO EDDY NM 17. Spacing Unit dedicated to this well 15. Distance from proposed* 16. No. of acres in lease location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 660° 560 ACRES 320 ACRES Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 20. BLM/BIA Bond No. on file 19. Proposed Depth 9000 VIB 00 5938 22. Approximate date work will start 23 Estimated duration 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 4341' GL 89/01/2004 45 DAYS **Larrell Centrolled Water Besim** 24. Attachments The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form: 1. Well plat certified by a registered surveyor. 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). 2. A Drilling Plan. 3. A Surface Use Plan (if the location is on National Forest System Lands, the Operator certification Such other site specific information and/or plans as may be required by the authorized officer. SUPO shall be filed with the appropriate Forest Service Office). Name (Printed/Typed) 25. Signature DANNY LEDFORD 07/22/2004 Title SR. GEOLOGIST, OPERATIONS & DEVELOPMENT Name (Printed/Typed)/S/ Joe G. Lara Approved by (Signature) /s/ Joe G. Lara Title CARLSBAD FIELD OFFICE FIELD MANAGER Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

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 Ufrited States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*(Instructions on page 2)

Conditions of approval, if any, are attached.

APPROVAL SURL GENERAL REQUIREMENT SPECIAL STIPULATIONS ATTACHED

APPROVAL FOR 1 YEAR

DISTRICT I 1625 N. French Dr., Hobbs, NM 88240 State of New Mexico

Form C-102 Revised August 15, 2000

Energy, Minerals, and Natural Resources Department

Submit to Appropriate District Office

OIL CONSERVATION DIVISION

State Lease - 4 copies Fee Lease - 3 copies

AMENDED REPORT

DISTRICT II 1301 W. Grand Avenue, Artesia, NM 88210

1000 Rio Brazos Rd., Aztec, NM 87410

1220 South St. Francis Dr.

Santa Fe, New Mexico 87505

DISTRICT IV

DISTRICT III

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

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¹ API Number	² Pool Code	³ Pool Name			
		MISSISSIPPIAN WILD	CAT		
⁴ Property Code	BOX CAR I	Property Name SILLY FEDERAL "29"	⁶ Well Number		
70GRID №.		⁸ Operator Name NGTON OIL & GAS, INC.	9 Elevation 4341'		

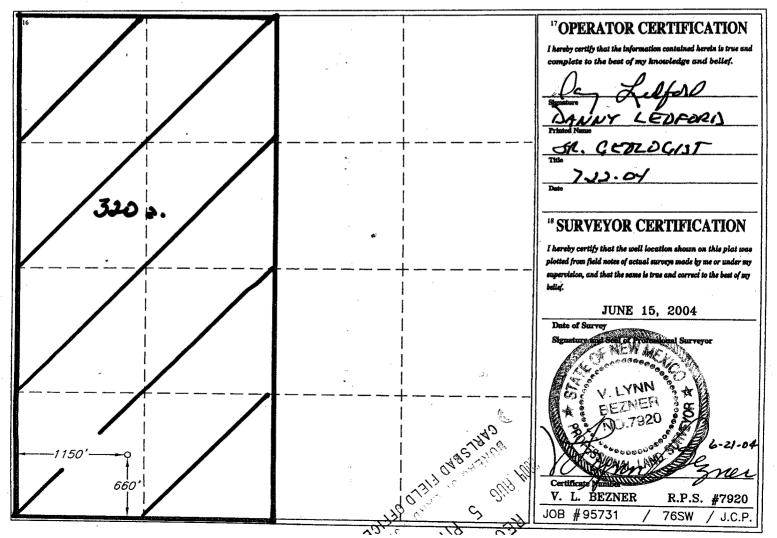
¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	29	20 SOUTH	23 EAST, N.M.P.M.		660'	SOUTH	1150'	WEST	EDDY

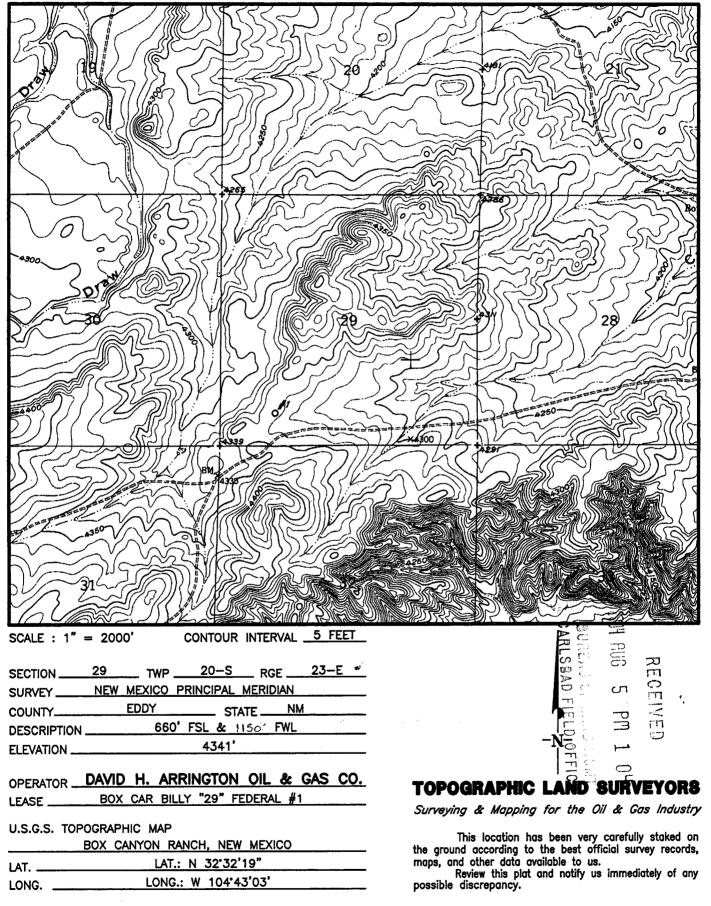
" Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
12 Dedicated Acre	s ¹³ Jo	int or Infill	¹⁴ Consolidation Code	¹⁵ Order N	0.				
320				•					

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

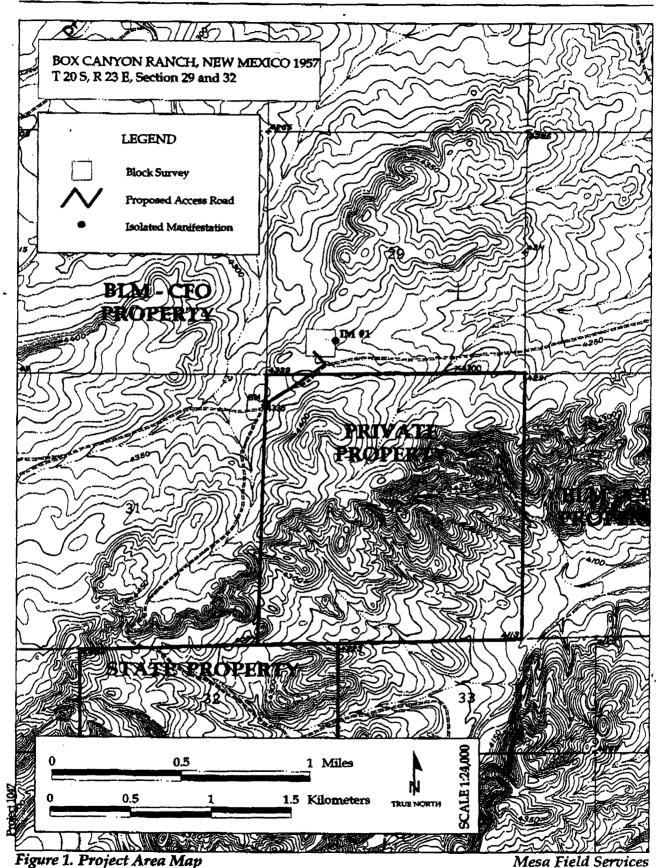


LOCATION & ELEVATION VERIFICATION MAP



1307 N. HOBART PAMPA, TX. 79065 (800) 658-6382 6709 N. CLASSEN BLVD. OKLAHOMA CITY, OK. 73116 (800) 654-3219 2903 N. BIG SPRING MIDLAND, TX. 79705 (800) 767-1653

Survey for the Box Car Willy Federal 29 No. 2 Well Pad and Access Road



Drilling Plan

for

David H. Arrington Oil & Gas, Inc.'s

BOX CAR BILLY FEDERAL "29" #1

660' FSL & 1150' FWL (LOT #M)

SECTION 29, T20S-R23E. N.M.P.M.

EDDY COUNTY. NEW MEXICO

Lease Serial # USANMNM 103584

Surface Formation: Guadalupian Age Grayburg/San Andres

Estimated Tops of Geologic Markers:

Glorieta	@	1600'
Abo	<u>@</u>	3700'
Wolfcamp	· @	4850'
Cisco	<u>@</u>	6150'
Canyon	<u>@</u>	7050'
Atoka	<u>@</u>	8250'
Morrow	@	8400'
Miss.	<u>@</u>	8900'
TD	<u>@</u>	9000'

Estimated Depths to Water, Oil or Gas Formation:

Water	@	200'+
Oil	<u>@</u>	3700'
Gas	<u>@</u>	8400'

Proposed Casing Program:

Drilling will begin with a starter hole to 40' in which will be set 20" conductor pipe. Drill 12 ¼" hole to 1425' run 9 5/8" casing and circulate 500sxs of cement to surface. Drill 8 ¾' hole to TD (9000'). Run 5 ½" casing to TD for completion and cement with 700 sxs.

The surface and production casing strings will be tested to 1000 psi.

Pressure Control Equipment:

Pressure control equipment will include a 5000# WP blowout preventer stack, with Series 900 blind and pipe rams. The BOP stack will include a kill line and choke manifold tested to 1000 psi. BOP hydraulic controls will be operated at least daily. A BOP schematic is attached showing the assembly for a 5000# BOP.

Circulating Medium:

Arrington anticipates the following mud program:

0' - 1425' Fresh water/Air

1425'- 7600' FW/Cut Brine 8.6-9.2 mdwt vis 28-32

7600' – 9000' Cut Brine/XCD/Starpac 9.4-10.0 mdwt vis 44-48

Auxiliary Equipment:

A full-opening safety valve, to fit the drill string in use, will be kept on the rig floor at all times.

Testing, Logging and Coring Program:

Samples: Samples will be caught at 30' intervals from surface to

3000' and at 10' intervals from 3000' to TD.

DST and Cores: At discretion of well site geologist in Abo, Wolfcamp, and

Cisco.

Logging: Anticipate Neutron-Density, Gamma-Ray, and Dual

Laterlog

Abnormal Pressures, Temperatures or Hydrogen Sulfide:

It is possible that H2S will be encountered in the San Andres, however, the casing and cement program should alleviate potential danger. Bottom-hole pressure is not expected to exceed §000#.

Anticipated Starting Date:

Drilling will commence upon approval. Drilling and completion operations will last approximately 40 days.

Operator's Representative:

Representative responsible for assuring compliance with the approved Surface Use Plan:

Danny H. Ledford
David H. Arrington Oil & Gas, Inc.
Post Office Box 2071
Midland, Texas 79702
915.682.6685

Certification:

I hereby certify that I, or person under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; that the work associated with the operations proposed herein will be performed by David H. Arrington Oil & Gas, Inc. and its sub-contractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

7. 22.2024

Date

Danny H. Ledford. Geologist

Hydrogen Sulfide Drilling Operations Plan

for David H. Arrington Oil & Gas, Inc.'s

BOX CAR BILLY FEDERAL "29" #1
660' FSL & 1150' FWL (LOT #M)
SECTION 29, T20S-R23E. N.M.P.M.
EDDY COUNTY. NEW MEXICO

Lease Serial # USANMNM 103584

ONE - 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:

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

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

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

There will be an initial training session just prior to encountering a known or probable H2S zone (within 3 days or 500') 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. This plan shall be available at the well site. All personnel will be required to carry documentation that they have received the proper training.

TWO - 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 penetration of the first zone containing, or reasonably expected to contain, H2S.

1. Well Control Equipment:

- Flare line with flare igniter:
- Choke manifold with one remote hydraulic choke installed;
- Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit;

Auxiliary equipment to include an Annular Preventer.

2. Protective equipment for essential personnel:

The designated safety expert will provide 5-minute escape units located in the doghouse, and 30-minute air units at briefing areas.

3. H2S detection and monitoring equipment:

- Three portable H2S monitors will be positioned on location for the best coverage and response. These units have warning lights and audible sirens when triggered by H2S levels > 20 PPM.
- One portable SO2 monitor will be positioned near flare line during H2S flaring operations.

4. Visual warning systems:

- Wind direction indicators will be placed in accordance with the directives issued by the designated H2S expert.
- Caution/Danger signs shall be posted on roads providing direct access to the location. Signs will be painted a high visibility yellow with black lettering of sufficient size to be legible from the immediate location.

5. Mud Program:

The mud program will minimize the volume of H2S circulated to the surface. Proper mud weight safe drilling practices, and, if necessary, the use of H2S scavengers will minimize hazards when penetrating H2S bearing zones.

6. Metallurgy:

- All drill strings, casing, tubing, wellhead, blowout preventers, drilling spools kill lines, choke manifold and line valves shall be suitable for H2S service.
- All elastomers used for packing and seals shall be H2S trimmed.

7. Communications:

 Radio and telephone communications will be available in company vehicles and rig doghouse.

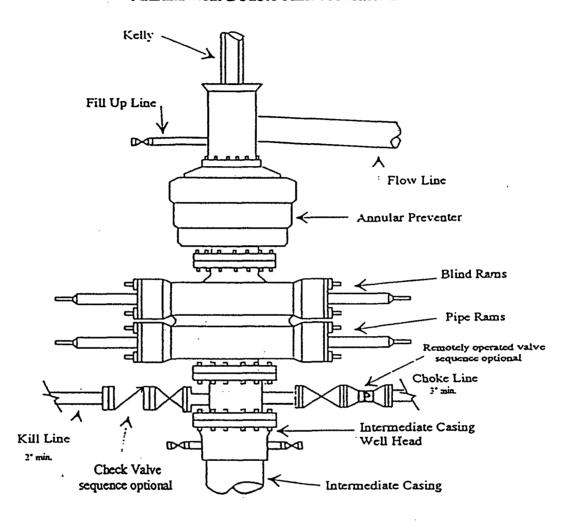
8. Well Testing:

 Drill stem testing will be performed with a minimum number of personnel necessary to safely and adequately conduct the test. The drill stem testing of any known formation that contains H2S will be conducted during daylight hours.

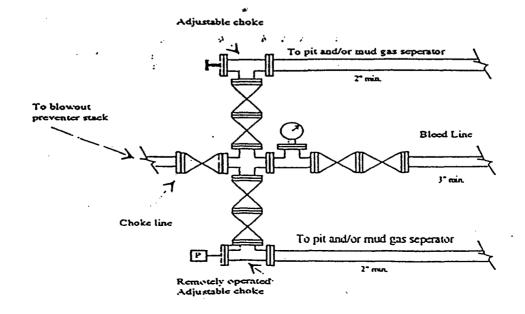


David H. Arrington Oil & Gas, Inc.

Typical 5,000 psi Pressure System
Schematic
Annular with Double Ram Preventer Stack



Typical 5,000 psi choke manifold assembly with at least these minimun features



COG OPERATING LLC 550 W. TEXAS AVE., SUITE 1300 FASKEN CENTER TOWER II MIDLAND, TX 79701

September 13, 2004

New Mexico Oil Conservation Division Attn: Bryan Arrant 1301 W. Grand Avenue Artesia. NM 88210

Re:

Change of Operator from David H. Arrington Oil & Gas, Inc.

to COG Operating LLC and H2S Contingency Plan

Box Car Billy Federal 29 #1

Eddy Co., NM

Dear Bryan,

Enclosed is the operation change information on the above mentioned well that we discussed over the phone.

Regarding a H2S contingency plan:

We do not anticipate hazardous gases or fluids at this depth in this well.

Thanks again for all your help.

Sincerely,

Phyllis a. Edwards

Phyllis A. Edwards Regulatory Analyst

/pae

Enclosures