

OCD-HOBBS

HOBBS OCD

ATS-12-599

R-111-POTASH

RESUBMITTAL
FORM APPROVED
OMB No. 1004-0137
Expires July 31, 2010

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

AUG 01 2012

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: ☒ DRILL ☐ REENTER		5. Lease Serial No. NM-108976	
1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone		6. If Indian, Allottee or Tribe Name _____	
2. Name of Operator ROCA PRODUCTION, INC.		7. If Unit or CA Agreement, Name and No. _____	
3a. Address P. O. BOX 10139 MIDLAND, TEXAS 79702		8. Lease Name and Well No. 39379 OUTLAW "22" FED. COM. #1H	
3b. Phone No. (include area code) 432-683-6812		9. API Well No. 30025-40725	
4. Location of Well (Report location clearly and in accordance with any State requirements.) At surface 660' FNL & 1980' FEL SECTION 22 T20S-R33E Unit B At proposed prod. zone 660' FSL & 1980' FEL SECTION 22 T20S-R33E Unit D		10. Field and Pool or Exploratory TEAS-BONE Spring 58960	
11. Sec., T. R. M. or Blk. and Survey or Area SECTION 22 T20S-R33E		12. County or Parish LEA CO.	
13. State NM		14. Distance in miles and direction from nearest town or post office* Approximately 30 miles Southwest of Hobbs New Mexico	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 660'	16. No. of acres in lease 600	17. Spacing Unit dedicated to this well 160	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. NA	19. Proposed Depth TVD-9450' MD-13,205'	20. BLM/BIA Bond No. on file NMB-000883 - STATEWIDE	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3588' GL	22. Approximate date work will start* When Approved	23. Estimated duration 35 Days	

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must be attached to this form:

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (s Item 20 above).
- Operator certification
- Such other site specific information and/or plans as may be required by the BLM.

25. Signature <i>Joe T. Janica</i>	Name (Printed/Typed) Joe T. Janica	Date 06/08/12
Title Permit Eng.		
Approved by (Signature) <i>151 Aden L. Seidlitz</i>	Name (Printed/Typed) <i>151 Aden L. Seidlitz</i>	Date JUL 23 2012
Title STATE DIRECTOR	Office NM STATE OFFICE	

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.
Conditions of approval, if any, are attached.

APPROVAL FOR TWO YEARS

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.

(Continued on page 2)

**CAPTAIN CONTROLLED WATER BASIN
SEE ATTACHED FOR
CONDITIONS OF APPROVAL**

**APPROVAL SUBJECT TO
GENERAL REQUIREMENTS
AND SPECIAL STIPULATIONS
ATTACHED**

APPLICATION TO DRILL

ROCA PRODUCTION, INC.
OUTLAW "22" FEDERAL COM. #1H
UNIT "B" SECTION 22
T20S-R33E LEA CO. NM

In response to questions asked under Section II of Bulletin NTL-6, the following information on the above well will be provided.

1. LOCATION: SL 660' FNL & 1980' FEL SECTION 22 T20S-R33E LEA CO. NM
BHL 660' FSL & 1980' FEL SECTION 22 T20S-R33E LEA CO. NM
2. ELEVATION ABOVE SEA LEVEL: 3588'
3. GEOLOGICAL NAME OF SURFACE FORMATION: Quaternary Aeolian Deposits;
4. DRILLING TOOLS AND ASSOCIATED EQUIPMENT: Conventional rotary drilling rig using drilling mud as a circulating medium for the removal of solids from the hole.
5. PROPOSED DRILLING DEPTH: MD-13,205'
TVD- 9,450'
6. ESTIMATED TOPS OF GEOLOGICAL FORMATIONS:

Rustler Anhydrite	1350'	Cherry Canyon	5095'
Top of Salt	1435'	Brushy Canyon	6627'
Base of Salt	2850'	Bone Spring Lime	8280'
Top of Yates	2990'	1st Bone Spring Sd.	9400'
Top of Rivers	3200'	TVD-	9450'
Top of Capitan	3532'	MD	13,205'
7. POSSIBLE MINERAL BEARING FORMATIONS:

Cherry Canyon	Oil/Gas/Water	Possible Fresh Water	200'
Brushy Canyon	Oil/Gas/Water		
Bone Spring Sd.	Oil/Gas/Water		
8. CASING PROGRAM:

HOLE SIZE	INTERVAL	CASING OD	WEIGHT	THREAD	COLLAR	GRADE	CONDITION
26"	0-40'	20"	NA	NA	NA	Conductor	New
17 1/2"	0-1375' 1400	13 3/8"	54.5#	8-R	ST&C	J-55	New
12 1/2"	0-3500'	9 5/8"	36#	8-R	ST&C	J-55	New
8 3/4"	0-4850' 5000	7"	26#	8-R	LT&C	P-110	New
6 1/8"	0-13,205'	4 1/2"	11.6	Butress	BT&C	P-110	New

CASING SAFETY FACTORS: Collapse 1.125 Burst 1.00 Body Yield 1.5
Joint Strength 8-Round 1.8
Buttress 1.6

APPLICATION TO DRILL

ROCA PRODUCTION, INC.
OUTLAW "22" FEDERAL COM. #1H
UNIT "B" SECTION 22
T20S-R33E LEA CO. NM

9. CASING SETTING DEPTHS & CEMENTING:

- 20" Conductor Set 40' of 20" Conductor pipe and cement to surface with Radi-mix.
- 13 3/8" Surface Run and set 1375' of 13 3/8" 54.5# J-55 ST&C casing. Cement with 625 Sx. of 35/65/6 Class "C" Premium Plus POZ cement + 6% Benyonite, + 5% Salt, + 5% MPA-5, + 0.7% Sodium Metasilicate, + 5# LCM/Sx. Yield 2.00, 50% Excess. Tail in with 200 Sx. of Class "C" Premium Plus Cement + 2% CaCl, Yield 1.34 50% Excess. Circulate cement to surface.
- 9 5/8" Intermediate Run and set 3500' of 9 5/8" 36# J-55 ST&C casing. Cement with 875 Sx of Class "C" Premium Plus 35/65 POZ cement + 4% Bentonite, + 5% Salt, + 5% MPA-5, + 0.7% Sodium Metasilicate, + 5# LCM/Sx. Yield 2.02 50% Excess. Tail in with 200 Sx. of Class "C" cement + 2% CaCl, Yield 1.34. 50% Excess circulate cement to surface.
- 7" 2nd Intermediate Run and set 4850' of 7" 26# P-110 LT&C casing. Cement with 350 Sx. of 35/65/ Class "C" Premium Plus POZ cement + 4% Bentonite, + 5% Salt, + 5% MPA-5 + 0.7% Sodium Metasilicate, + 5# LCM/Sx. Yield 2.02, 35% Excess. Tail in with 200 Sx. of Class "C" cement, Yield 1.34. 35% Excess, circulate cement.
- 4 1/2" Production Run and set 13,205' of 4 1/2" 11.6# P-110 BT&C casing. Cement with 325 Sx. of Premium Plus Class "H" cement + 0.7% FL-62, + 0.4% BA-10A, + 0.1% FL-52, Yield 2.44, tail in with 900 Sx. of 50/50 Class "C" POZ cement + 10% Bentonite, +5% Salt, Yield 1.33, 30% excess, top of cement 3300' from surface.

10. PRESSURE CONTROL EQUIPMENT:

Exhibit "E" shows a 900 Series 3000 PSI working pressure B.O.P. consisting of an annular bag type preventor, middle blind rams, and bottom pipe rams. The B.O.P. will be nipped up on the 13 3/8" casing and tested to API specifications. The B.O.P. will be operated at least once in each 24 hour period, and the blind rams will be operated when the drill pipe is out of the hole on trips. Full opening, stabbing valve and upper kelly cock will be on the derrick floor at all times. Exhibit "E-1" shows a hydraulically operated closing unit and a 3" 5000 PSI working pressure choke manifold with dual adjustable chokes. No abnormal pressures or temperatures are expected while drilling of this well. Other wells drilled in this area did not show any indication of abnormal pressures or temperatures. BOP 13 5/8" SOW

APPLICATION TO DRILL

ROCA PRODUCTION, INC.
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 UNIT "B" SECTION 22
 T20S-R33E LEA CO. NM

11. PROPOSED MUD CIRCULATING SYSTRM:

DEPTH	MUD WT.	VISC.	FLUID LOSS	TYPE MUD SYSTEM
40-625' <i>1400</i>	8.6-8.8	36-38	NC	Fresh water Spud mud use paper to control seepage
<i>625-4850'</i> <i>1400-3500</i>	10.0-10.1	29-30	NC	Brine water add paper to control seepage and high viscosity sweeps to clean hole.
<i>4850-8900'</i> <i>3500-5000</i>	8.4-9.1	28-29	NC	<i>Fresh water only</i> Fresh water, cut brine use paper to control seepage and high viscosity sweeps to clean hole.
8900-13,205'	8.4-9.1	34-36	10-15 cc's or less	Same as above but add HB-411, Dynazan/Starch to control water loss.

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, cut cores and casing, the viscosity, water loss and other properties may have to be altered to meet these requirements.

THIS WELL WILL BE DRILLED USING A CLOSED MUD SYSTEM.

APPLICATION TO DRILL

ROCA PRODUCTION, INC.
OUTLAW "22" FEDERAL COM. #1H
UNIT "B" SECTION 22
T20S-R33E LEA CO. NM

12. OPEN HOLE LOGGING, CORING, MUD LOGGING AND TESTING: *See COA*

- A. Open hole logs: Dual Laterolog , SNP, LDT, MSFL, Gamma Ray Caliper from 8900±' (KO Point) back to 9 5/8" casing shoe.
- B. Run Gamma Ray, Neutron from 9 5/8" casing shoe back to surface.
- C. Rig up mud logger on hole below the 13 3/8" casing shoe.
- D. No cores or DST's are planned at this time.

13. POTENTIAL HAZARDS:

No abnormal pressures or temperatures are expected during the drilling of this well. There is no known presence of H_2S in this area. An Unmanned H_2S trailer will be on location during the drilling of this well. If any H_2S is detected a fully manned unit will be put in operation. If H_2S is detected the operator will comply with the provisions of Onshore Oil & Gas Order No. 6. No lost circulation is expected to occur. All personnel will be familiar with all aspects of safe operation of the equipment being used to drill this well. Estimated BHP 4450 PSI, Estimated BHT 150°.

14. ANTICIPATED STARTING DATE AND DURATION OF OPERATION:

Road and location construction will begin after the BLM has approved the APD. Anticipated spud date will be shortly after construction has been completed and a drilling rig is available. Move in operations and drilling is expected to take 38 days. In order to complete this well it will take approximately 30 additional days.

15. OTHER FACETS OF THIS OPERATION:

After casing is run and cemented cased hole logs ,Gamma RAY, Neutron , Collar logs will be run over the anticipated productive zones. The Bone Spring formation perforated and stimulated in order to establish production and the well will be placed on production.

OGX

OGX Resources

Lea County
Outlaw Fed Com 22 #1
Outlaw #1
OH

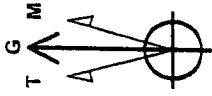
Plan: Plan #1

Pathfinder X & Y Survey Report

25 March, 2009

PATHFINDER

OGX



Azimuths to Grid North
True North: -0.37°
Magnetic North: 7.53°
Magnetic Field
Strength: 49061.7nT
Dip Angle: 60.56°
Date: 3/25/2009
Model: IGRF200510

Project: Lea County
Site: Outlaw Fed Com 22 #1
Well: Outlaw #1
Wellbore: OH
Plan: Plan #1 (Outlaw #1/OH)

PATHFINDER

ENERGY SERVICES

WELL DETAILS: Outlaw #1

Ground Elevation: 3593.00
RKB @ 3593.00ft (Original Well Elev)
Rig Name: Original Well Elev

+W/S 0.00 +E/W 0.00 Northing 569557.400 Easting 711003.100 Latitude 32° 33' 50.235" N Longitude 103° 38' 54.114" W Slot

PROJECT DETAILS: Lea County
Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level
Local North: Grid

SECTION DETAILS

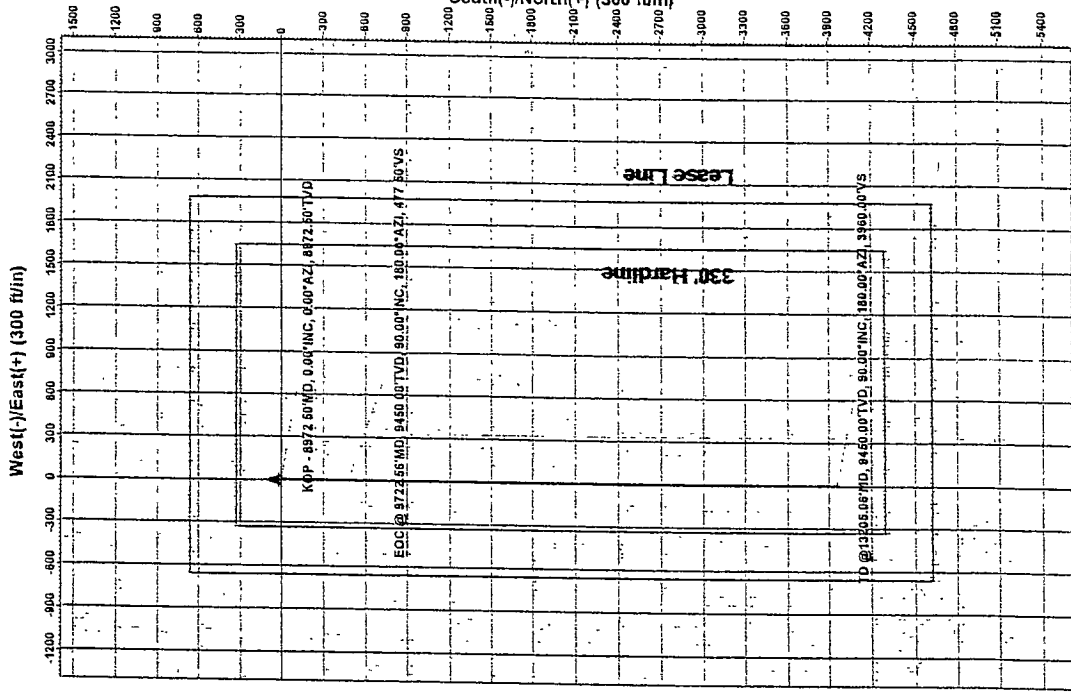
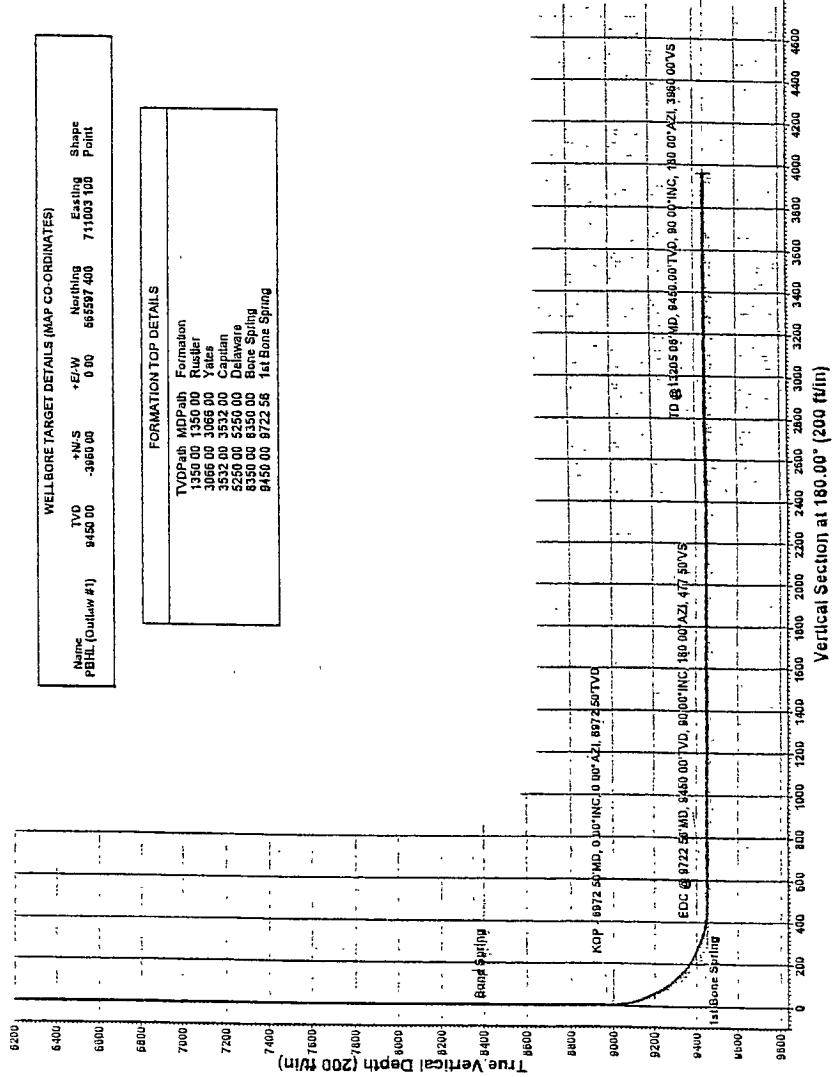
Sec	MD	Inc	Az	TVD	+N/S	+E/W	DLeg	TFace	VSac	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	8972.50	0.00	0.00	8972.50	0.00	0.00	0.00	0.00	0.00	0.00
3	9722.56	90.00	180.00	8450.00	-477.80	0.00	12.00	180.00	477.80	PSHIL (Outlaw #1)
4	13205.06	90.00	180.00	9450.00	-3950.00	0.00	0.00	0.00	3950.00	PSHIL (Outlaw #1)

WELL BORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/S	+E/W	Nothing	Easting	Shape
PSHIL (Outlaw #1)	8450.00	-3950.00	0.00	565597.400	711003.100	Point

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1350.00	1350.00	Rusler
3066.00	3066.00	Yates
3532.00	3532.00	Capitan
4220.00	4220.00	Del Rio
5350.00	5350.00	Bone Spring
8450.00	8722.56	1st Bone Spring



Company: OGX Resources
Project: Lea County
Site: Outlaw Fed Com 22 #1
Well: Outlaw #1
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well Outlaw #1
TVD Reference: WELL @ 3593.00ft (Original Well Elev)
MD Reference: WELL @ 3593.00ft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Single User Db

Project: Lea County
Map System: US State Plane 1927 (Exact solution)
Geo Datum: NAD 1927 (NADCON CONUS)
Map Zone: New Mexico East 3001
System Datum: Mean Sea Level

Site: Outlaw Fed Com 22 #1
Site Position: Northing: 569,557.400 ft Latitude: 32° 33' 50.236 N
From: Easting: 711,003.100 ft Longitude: 103° 38' 54.414 W
Position Uncertainty: Map 0.00 ft Slot Radius: Grid Convergence: 0.37 °

Well: Outlaw #1
Well Position: Northing: 569,557.400 ft Latitude: 32° 33' 50.236 N
Easting: 711,003.100 ft Longitude: 103° 38' 54.414 W
Position Uncertainty: Wellhead Elevation: ft Ground Level: 3,593.00 ft

Wellbore: OH
Magnetics: Model Name IGRF200510 Sample Date 3/25/2009
 Declination (°) 7.90 Dip Angle (°) 60.56 Field Strength (nT) 49,062

Design: Plan #1
Audit Notes:
Version: Phase: PLAN Tie On Depth: 0.00
Vertical Section: Depth From (TVD) (ft) 0.00 +N/-S (ft) 0.00 +E/-W (ft) 0.00 Direction (°) 180.00

Survey Tool Program: Date 3/25/2009
From (ft): To (ft)
 0.00 13,205.06 Plan #1 (OH)
Survey (Wellbore): Tool Name MWD
Description: MWD - Standard

Company: OGX Resources
Project: Lea County
Site: Outlaw Fed Corn 22 #1
Well: Outlaw #1
Wellbore: OH
Design: Plan #1

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MD Reference: WELL @ 3593.00ft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Single User Db

Planned Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
0.00	0.00	0.00	0.00	-3,593.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
100.00	0.00	0.00	100.00	-3,493.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
200.00	0.00	0.00	200.00	-3,393.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
300.00	0.00	0.00	300.00	-3,293.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
400.00	0.00	0.00	400.00	-3,193.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
500.00	0.00	0.00	500.00	-3,093.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
600.00	0.00	0.00	600.00	-2,993.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
700.00	0.00	0.00	700.00	-2,893.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
800.00	0.00	0.00	800.00	-2,793.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
900.00	0.00	0.00	900.00	-2,693.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
1,000.00	0.00	0.00	1,000.00	-2,593.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
1,100.00	0.00	0.00	1,100.00	-2,493.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
1,200.00	0.00	0.00	1,200.00	-2,393.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
1,300.00	0.00	0.00	1,300.00	-2,293.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
1,350.00	0.00	0.00	1,350.00	-2,243.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
Rustler										
1,400.00	0.00	0.00	1,400.00	-2,193.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
1,500.00	0.00	0.00	1,500.00	-2,093.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
1,600.00	0.00	0.00	1,600.00	-1,993.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
1,700.00	0.00	0.00	1,700.00	-1,893.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
1,800.00	0.00	0.00	1,800.00	-1,793.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
1,900.00	0.00	0.00	1,900.00	-1,693.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
2,000.00	0.00	0.00	2,000.00	-1,593.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
2,100.00	0.00	0.00	2,100.00	-1,493.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
2,200.00	0.00	0.00	2,200.00	-1,393.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
2,300.00	0.00	0.00	2,300.00	-1,293.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
2,400.00	0.00	0.00	2,400.00	-1,193.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10

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 Database: EDM 2003.16 Single User Db

Planned Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg ("/100ft)	Northing (ft)	Easting (ft)
2,500.00	0.00	0.00	2,500.00	-1,093.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
2,600.00	0.00	0.00	2,600.00	-993.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
2,700.00	0.00	0.00	2,700.00	-893.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
2,800.00	0.00	0.00	2,800.00	-793.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
2,900.00	0.00	0.00	2,900.00	-693.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
3,000.00	0.00	0.00	3,000.00	-593.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
3,065.00	0.00	0.00	3,066.00	-527.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
Yates										
3,100.00	0.00	0.00	3,100.00	-493.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
3,200.00	0.00	0.00	3,200.00	-393.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
3,300.00	0.00	0.00	3,300.00	-293.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
3,400.00	0.00	0.00	3,400.00	-193.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
3,500.00	0.00	0.00	3,500.00	-93.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
3,532.00	0.00	0.00	3,532.00	-61.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
Capitan										
3,600.00	0.00	0.00	3,600.00	7.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
3,700.00	0.00	0.00	3,700.00	107.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
3,800.00	0.00	0.00	3,800.00	207.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
3,900.00	0.00	0.00	3,900.00	307.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
4,000.00	0.00	0.00	4,000.00	407.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
4,100.00	0.00	0.00	4,100.00	507.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
4,200.00	0.00	0.00	4,200.00	607.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
4,300.00	0.00	0.00	4,300.00	707.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
4,400.00	0.00	0.00	4,400.00	807.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
4,500.00	0.00	0.00	4,500.00	907.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
4,600.00	0.00	0.00	4,600.00	1,007.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
4,700.00	0.00	0.00	4,700.00	1,107.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10



Pathfinder Energy Services

Pathfinder X & Y Survey Report



Company: OGX Resources
Project: Lea County
Site: Outlaw Fed Corn 22 #1
Well: Outlaw #1
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well Outlaw #1

TVD Reference: WELL @ 3593.00ft (Original Well Elev)

MD Reference: WELL @ 3593.00ft (Original Well Elev)

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Database: EDM 2003.16 Single User Db

Planned Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
4,800.00	0.00	0.00	4,800.00	1,207.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
4,900.00	0.00	0.00	4,900.00	1,307.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
5,000.00	0.00	0.00	5,000.00	1,407.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
5,100.00	0.00	0.00	5,100.00	1,507.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
5,200.00	0.00	0.00	5,200.00	1,607.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
5,250.00	0.00	0.00	5,250.00	1,657.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
Delaware										
5,300.00	0.00	0.00	5,300.00	1,707.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
5,400.00	0.00	0.00	5,400.00	1,807.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
5,500.00	0.00	0.00	5,500.00	1,907.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
5,600.00	0.00	0.00	5,600.00	2,007.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
5,700.00	0.00	0.00	5,700.00	2,107.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
5,800.00	0.00	0.00	5,800.00	2,207.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
5,900.00	0.00	0.00	5,900.00	2,307.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
6,000.00	0.00	0.00	6,000.00	2,407.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
6,100.00	0.00	0.00	6,100.00	2,507.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
6,200.00	0.00	0.00	6,200.00	2,607.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
6,300.00	0.00	0.00	6,300.00	2,707.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
6,400.00	0.00	0.00	6,400.00	2,807.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
6,500.00	0.00	0.00	6,500.00	2,907.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
6,600.00	0.00	0.00	6,600.00	3,007.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
6,700.00	0.00	0.00	6,700.00	3,107.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
6,800.00	0.00	0.00	6,800.00	3,207.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
6,900.00	0.00	0.00	6,900.00	3,307.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
7,000.00	0.00	0.00	7,000.00	3,407.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
7,100.00	0.00	0.00	7,100.00	3,507.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
7,200.00	0.00	0.00	7,200.00	3,607.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10

Company: OCX Resources
 Project: Lea County
 Site: Outlaw Fed Corn 22 #1
 Well: Outlaw #1
 Wellbore: OH
 Design: Plan #1

Local Co-ordinate Reference: Well Outlaw #1
 TVD Reference: WELL @ 3593.00ft (Original Well Elev)
 MD Reference: WELL @ 3593.00ft (Original Well Elev)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 2003 16 Single User Db

Planned Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	D/Leg (°/100ft)	Northing (ft)	Easting (ft)
7,300.00	0.00	0.00	7,300.00	3,707.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
7,400.00	0.00	0.00	7,400.00	3,807.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
7,500.00	0.00	0.00	7,500.00	3,907.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
7,600.00	0.00	0.00	7,600.00	4,007.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
7,700.00	0.00	0.00	7,700.00	4,107.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
7,800.00	0.00	0.00	7,800.00	4,207.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
7,900.00	0.00	0.00	7,900.00	4,307.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
8,000.00	0.00	0.00	8,000.00	4,407.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
8,100.00	0.00	0.00	8,100.00	4,507.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
8,200.00	0.00	0.00	8,200.00	4,607.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
8,300.00	0.00	0.00	8,300.00	4,707.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
8,350.00	0.00	0.00	8,350.00	4,757.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
Bone Spring										
8,400.00	0.00	0.00	8,400.00	4,807.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
8,500.00	0.00	0.00	8,500.00	4,907.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
8,600.00	0.00	0.00	8,600.00	5,007.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
8,700.00	0.00	0.00	8,700.00	5,107.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
8,800.00	0.00	0.00	8,800.00	5,207.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
8,900.00	0.00	0.00	8,900.00	5,307.00	0.00	0.00	0.00	0.00	569,557.40	711,003.10
8,972.50	0.00	0.00	8,972.50	5,379.50	0.00	0.00	0.00	0.00	569,557.40	711,003.10
KOP - 8372.50' MD, 0.00° INC, 0.00° AZI, 8972.50' TVD										
8,975.00	0.30	120.00	8,975.00	5,382.00	-0.01	0.00	0.00	0.01	569,557.39	711,003.10
9,000.00	3.30	120.00	8,999.98	5,406.98	-0.79	0.00	0.00	0.79	569,556.61	711,003.10
9,025.00	6.30	120.00	9,024.89	5,431.89	-2.88	0.00	0.00	2.88	569,554.52	711,003.10
9,050.00	9.30	120.00	9,049.66	5,456.66	-6.28	0.00	0.00	6.28	569,551.12	711,003.10
9,075.00	12.30	120.00	9,074.21	5,481.21	-10.96	0.00	0.00	10.96	569,546.44	711,003.10
9,100.00	15.30	120.00	9,098.49	5,505.49	-16.92	0.00	0.00	16.92	569,540.48	711,003.10

Company: OCG Resources
Project: Lea County
Site: Outflow Field Cor 22 #1
Well: Outflow #1
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference:
Well Outflow #1
WELL @ 3593.004 (Original Well Elev)
WELL @ 3593.004 (Original Well Elev)
Grid
Minimum Curvature
EDM 2003.16 Single User Db

Planned Survey

1/D (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	Di. Leg (ft/100ft)	Nothing (ft)	Eastings (ft)
9,125.00	18.30	180.00	9,122.42	5,529.42	-24.15	0.00	24.15	12.00	569,533.25	711,003.10
9,150.00	21.30	180.00	9,145.94	5,552.94	-32.61	0.00	32.61	12.00	569,524.79	711,003.10
9,175.00	24.30	180.00	9,168.98	5,575.98	-42.30	0.00	42.30	12.00	569,515.10	711,003.10
9,200.00	27.30	180.00	9,191.49	5,598.49	-53.18	0.00	53.18	12.00	569,504.22	711,003.10
9,225.00	30.30	180.00	9,213.40	5,620.40	-65.22	0.00	65.22	12.00	569,492.18	711,003.10
9,250.00	33.30	180.00	9,234.64	5,641.64	-78.39	0.00	78.39	12.00	569,479.01	711,003.10
9,275.00	36.30	180.00	9,255.17	5,662.17	-92.66	0.00	92.66	12.00	569,464.74	711,003.10
9,300.00	39.30	180.00	9,274.92	5,681.92	-107.98	0.00	107.98	12.00	569,449.42	711,003.10
9,325.00	42.30	180.00	9,293.84	5,700.84	-124.31	0.00	124.31	12.00	569,433.09	711,003.10
9,350.00	45.30	180.00	9,311.89	5,718.89	-141.61	0.00	141.61	12.00	569,415.79	711,003.10
9,375.00	48.30	180.00	9,329.00	5,736.00	-159.83	0.00	159.83	12.00	569,397.57	711,003.10
9,400.00	51.30	180.00	9,345.14	5,752.14	-178.92	0.00	178.92	12.00	569,373.46	711,003.10
9,425.00	54.30	180.00	9,360.25	5,767.25	-198.83	0.00	198.83	12.00	569,359.57	711,003.10
9,450.00	57.30	180.00	9,374.30	5,781.30	-219.51	0.00	219.51	12.00	569,337.89	711,003.10
9,475.00	60.30	180.00	9,387.25	5,794.25	-240.89	0.00	240.89	12.00	569,316.51	711,003.10
9,500.00	63.30	180.00	9,399.07	5,806.07	-262.92	0.00	262.92	12.00	569,294.46	711,003.10
9,525.00	66.30	180.00	9,409.71	5,816.71	-285.53	0.00	285.53	12.00	569,271.87	711,003.10
9,550.00	69.29	180.00	9,419.16	5,826.16	-308.68	0.00	308.68	12.00	569,248.72	711,003.10
9,575.00	72.29	180.00	9,427.38	5,834.38	-332.28	0.00	332.28	12.00	569,225.12	711,003.10
9,600.00	75.29	180.00	9,434.36	5,841.36	-356.29	0.00	356.29	12.00	569,201.11	711,003.10
9,625.00	78.29	180.00	9,440.07	5,847.07	-380.62	0.00	380.62	12.00	569,176.78	711,003.10
9,650.00	81.29	180.00	9,444.50	5,851.50	-405.22	0.00	405.22	12.00	569,152.18	711,003.10
9,675.00	84.29	180.00	9,447.63	5,854.63	-430.02	0.00	430.02	12.00	569,127.38	711,003.10
9,700.00	87.29	180.00	9,449.47	5,856.47	-454.95	0.00	454.95	12.00	569,102.45	711,003.10
9,722.56	90.00	180.00	9,450.00	5,857.00	-477.50	0.00	477.50	12.00	569,079.90	711,003.10
9,800.00	90.00	180.00	9,450.00	5,857.00	-554.94	0.00	554.94	0.00	569,002.45	711,003.10

EOG @ 9122.56' MD, 9459.03' TVD, 99.00' INC, 180.00' AZI, 477.50' VS - 1st Bone Spring

Company: OGX Resources
 Project: Lea County
 Site: Outlaw Fed Com 22 #1
 Well: Outlaw #1
 Wellbore: OH
 Design: Plan #1

Local Coordinate Reference:
 TWD Reference:
 MD Reference:
 North Reference:
 Survey Calculation Method:
 Database:

Well Outflow #1
 WELL @ 3593.00ft (Original Well Elev)
 WELL @ 3593.00ft (Original Well Elev)
 Grid
 Minimum Curvature
 EDM 2003 16 Single User Db

Planned Survey

MD (ft)	Inc (°)	Lat (°)	YVD (ft)	TVSS (ft)	N/S (ft)	E/W (ft)	V. Sep (ft)	Dipg (°/100ft)	Northing (ft)	Easting (ft)
9,500.00	90.00	130.00	9,450.00	5,857.00	-654.94	0.00	654.94	0.00	568,902.46	711,003.10
10,000.00	90.00	130.00	9,450.00	5,857.00	754.94	0.00	754.94	0.00	568,902.46	711,003.10
10,100.00	90.00	130.00	9,450.00	5,857.00	-854.94	0.00	854.94	0.00	568,902.46	711,003.10
10,200.00	90.00	130.00	9,450.00	5,857.00	-954.94	0.00	954.94	0.00	568,902.46	711,003.10
10,300.00	90.00	130.00	9,450.00	5,857.00	-1,054.94	0.00	1,054.94	0.00	568,902.46	711,003.10
10,400.00	90.00	130.00	9,450.00	5,857.00	-1,154.94	0.00	1,154.94	0.00	568,902.46	711,003.10
10,500.00	90.00	130.00	9,450.00	5,857.00	-1,254.94	0.00	1,254.94	0.00	568,902.46	711,003.10
10,600.00	90.00	130.00	9,450.00	5,857.00	-1,354.94	0.00	1,354.94	0.00	568,902.46	711,003.10
10,700.00	90.00	130.00	9,450.00	5,857.00	-1,454.94	0.00	1,454.94	0.00	568,902.46	711,003.10
10,800.00	90.00	130.00	9,450.00	5,857.00	-1,554.94	0.00	1,554.94	0.00	568,902.46	711,003.10
10,900.00	90.00	130.00	9,450.00	5,857.00	-1,654.94	0.00	1,654.94	0.00	567,902.46	711,003.10
11,000.00	90.00	130.00	9,450.00	5,857.00	-1,754.94	0.00	1,754.94	0.00	567,902.46	711,003.10
11,100.00	90.00	130.00	9,450.00	5,857.00	-1,854.94	0.00	1,854.94	0.00	567,902.46	711,003.10
11,200.00	90.00	130.00	9,450.00	5,857.00	-1,954.94	0.00	1,954.94	0.00	567,902.46	711,003.10
11,300.00	90.00	130.00	9,450.00	5,857.00	-2,054.94	0.00	2,054.94	0.00	567,902.46	711,003.10
11,400.00	90.00	130.00	9,450.00	5,857.00	-2,154.94	0.00	2,154.94	0.00	567,902.46	711,003.10
11,500.00	90.00	130.00	9,450.00	5,857.00	-2,254.94	0.00	2,254.94	0.00	567,902.46	711,003.10
11,600.00	90.00	130.00	9,450.00	5,857.00	-2,354.94	0.00	2,354.94	0.00	567,902.46	711,003.10
11,700.00	90.00	130.00	9,450.00	5,857.00	-2,454.94	0.00	2,454.94	0.00	567,902.46	711,003.10
11,800.00	90.00	130.00	9,450.00	5,857.00	-2,554.94	0.00	2,554.94	0.00	567,902.46	711,003.10
11,900.00	90.00	130.00	9,450.00	5,857.00	-2,654.94	0.00	2,654.94	0.00	566,902.46	711,003.10
12,000.00	90.00	130.00	9,450.00	5,857.00	-2,754.94	0.00	2,754.94	0.00	566,902.46	711,003.10
12,100.00	90.00	130.00	9,450.00	5,857.00	-2,854.94	0.00	2,854.94	0.00	566,902.46	711,003.10
12,200.00	90.00	130.00	9,450.00	5,857.00	-2,954.94	0.00	2,954.94	0.00	566,902.46	711,003.10
12,300.00	90.00	130.00	9,450.00	5,857.00	-3,054.94	0.00	3,054.94	0.00	566,902.46	711,003.10
12,400.00	90.00	130.00	9,450.00	5,857.00	-3,154.94	0.00	3,154.94	0.00	566,902.46	711,003.10
12,500.00	90.00	130.00	9,450.00	5,857.00	-3,254.94	0.00	3,254.94	0.00	566,902.46	711,003.10

Company: OGX Resources
Project: Lea County
Site: Ocellay Fed Com 22 #1
Well: Ocellay #1
Wellbore: OH
Region: Perm #1

Local Coordinate Reference: Well Outlaw #1
TVD Reference: WELL @ 3593.00ft (Original Well Elev)
WID Reference: WELL @ 3593.00ft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Single User Db

Planned Survey

WID (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	Dip (1/100ft)	Nothing (ft)	Easting (ft)
12,000.00	90.00	180.00	9,450.00	5,857.00	-3,354.94	0.00	3,354.94	0.00	566,202.46	711,003.10
12,700.00	90.00	180.00	9,450.00	5,857.00	-3,454.94	0.00	3,454.94	0.00	566,102.46	711,003.10
12,800.00	90.00	180.00	9,450.00	5,857.00	-3,554.94	0.00	3,554.94	0.00	566,002.46	711,003.10
12,900.00	90.00	180.00	9,450.00	5,857.00	-3,654.94	0.00	3,654.94	0.00	565,902.46	711,003.10
13,000.00	90.00	180.00	9,450.00	5,857.00	-3,754.94	0.00	3,754.94	0.00	565,802.46	711,003.10
13,100.00	90.00	180.00	9,450.00	5,857.00	-3,854.94	0.00	3,854.94	0.00	565,702.46	711,003.10
13,200.00	90.00	180.00	9,450.00	5,857.00	-3,950.00	0.00	3,950.00	0.00	565,607.40	711,003.10
TD @ 3265.00' MD, 9450.00' TVD, 50.00' INC, 180.00' AZI, 3560.00' VS - PEHL (Outlaw #1)										

Company: OGS Resources

Project: Lea County

Site: Outlaw Fed Com 22 #1

Well: Outlaw #1

Wellbore: OH

Design: Plan #1

Local Coordinate Reference:

Well Outlaw #1

MD Reference:

WELL @ 3593.00ft (Original Well Elev)

MD Reference:

WELL @ 3593.00ft (Original Well Elev)

Survey Calculation Method:

Minimum Curvature

Database:

EDM 2003.16 Single User Db

Targets

Target Name

- Lithology

- Shape

Dip Angle

(°)

TVD

(ft)

N-S

(ft)

E-W

(ft)

Nothing

(ft)

Eastings

(ft)

Latitude

(ft)

Longitude

(ft)

FEH-IL (Outlaw #1)

- plan hits target

- Point

0.00

0.00

-3,960.00

0.00

555,597.400

711,003.100

32° 33' 11.051" N

102° 33' 54.712" W

Formations

Measured Depth

(ft)

Vertical Depth

(ft)

Name

Lithology

Dip

(°)

Direction

(°)

Dip

(°)

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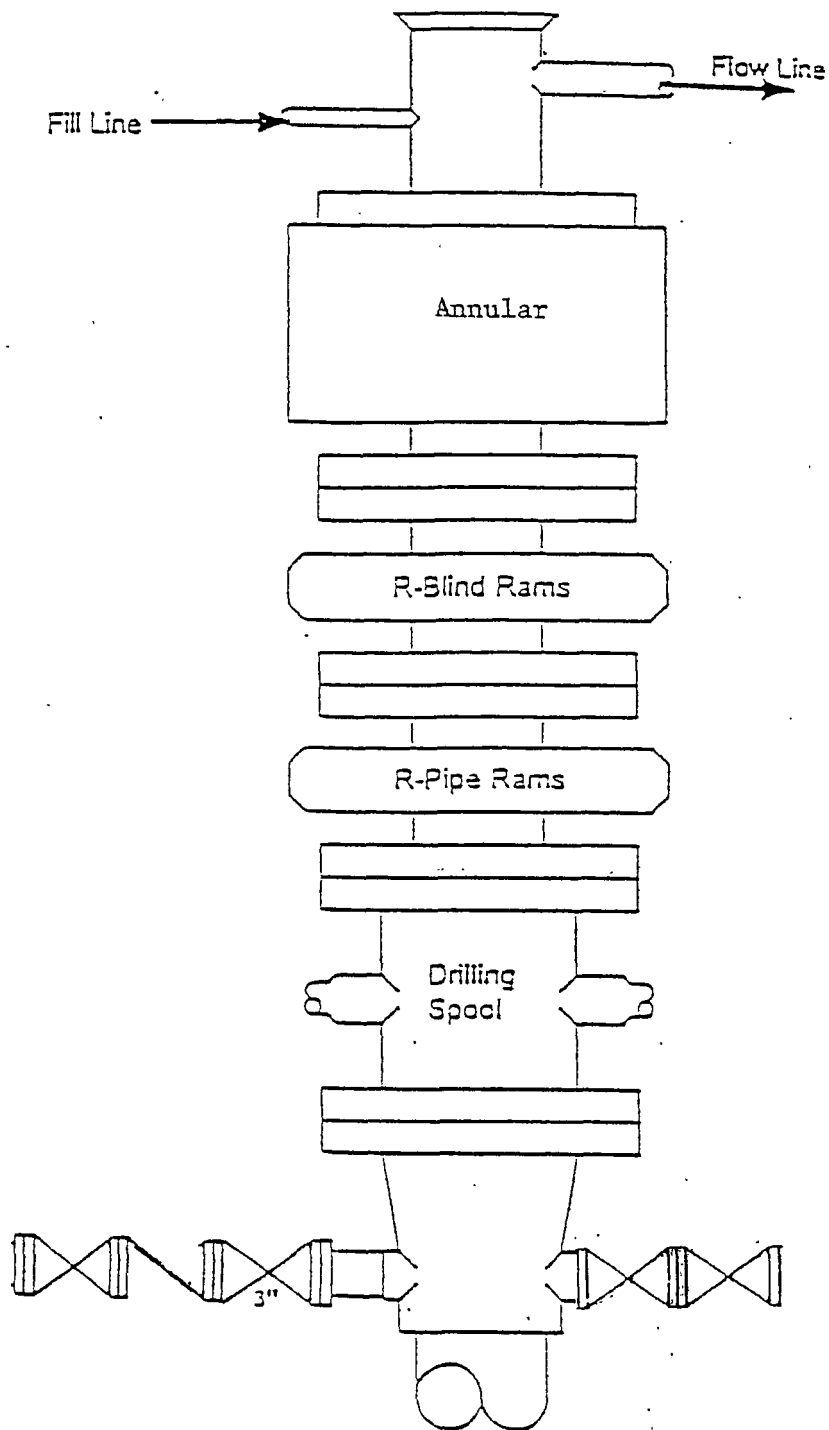
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Type 900 Series
3000 psi WP

EXHIBIT "E"
SKETCH OF B.O.P. TO BE USED ON

ROCA PRODUCTION, INC.
OUTLAW "22" FEDERAL COM. #1H
UNIT "B" SECTION 22
T20S-R33E LEA CO. NM

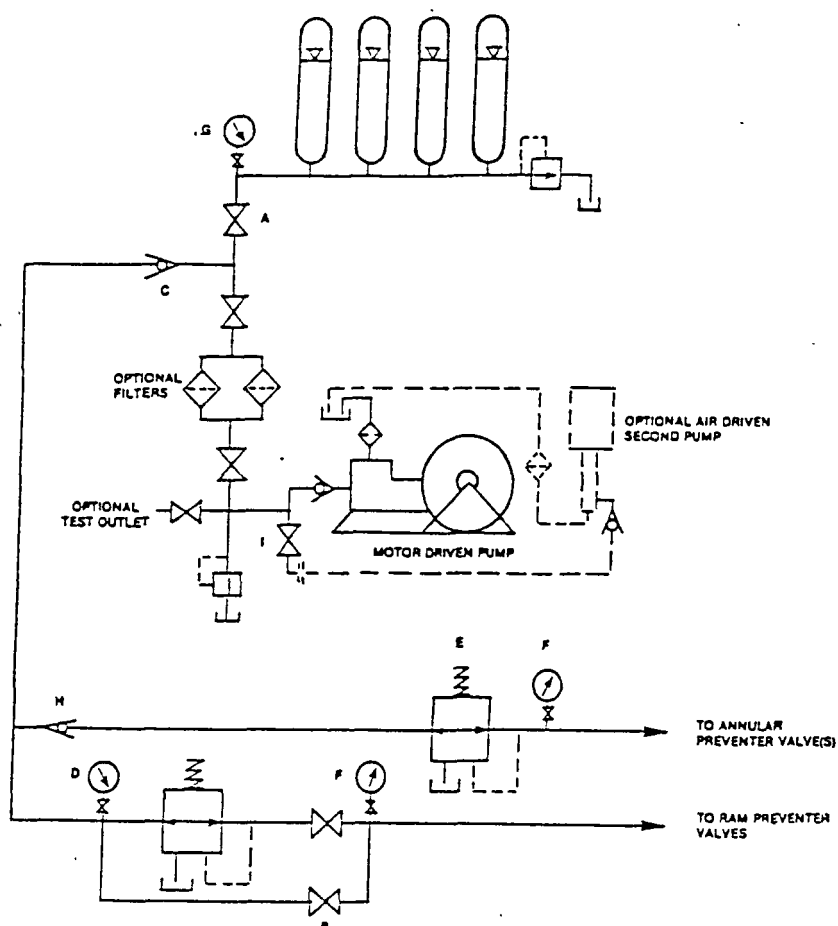


FIGURE K6-1. The schematic sketch of an accumulator system shows required and optional components.

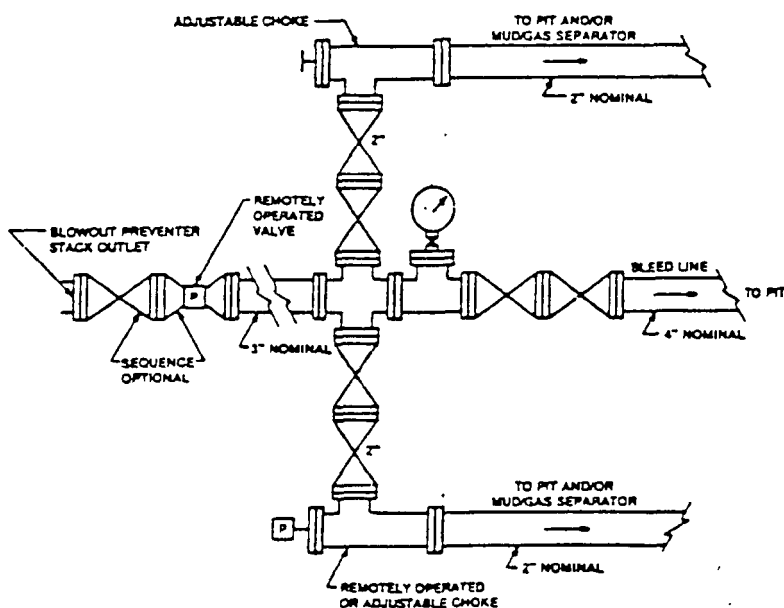
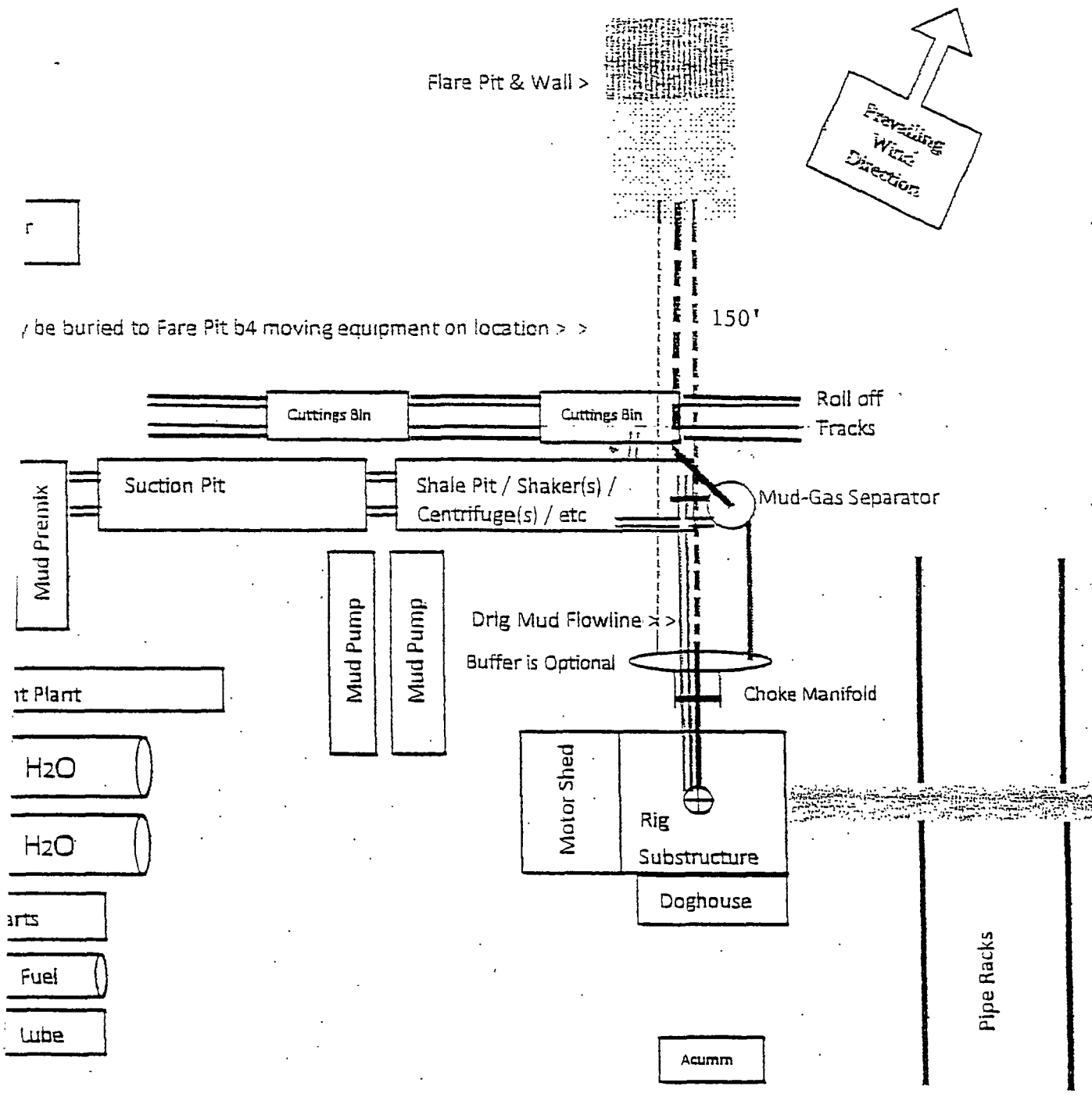


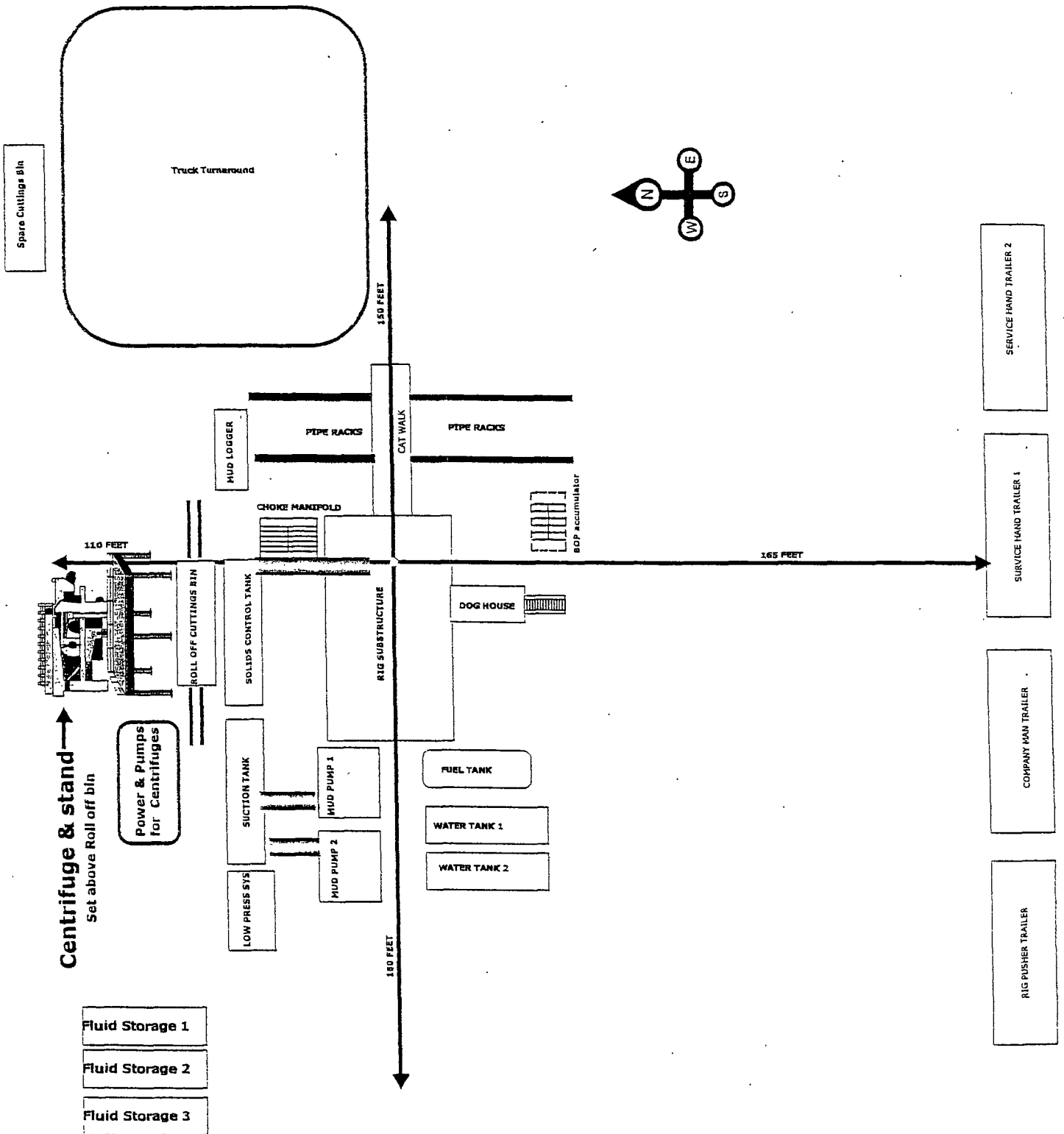
FIGURE K4-2. Typical choke manifold assembly for 5M rated working pressure service — surface installation.

EXHIBIT E-1"
CHOKE MANIFOLD & CLOSING UNIT

ROCA PRODUCTION, INC.
OUTLAW "22" FEDERAL COM. #1H
UNIT "B" SECTION 22
T20S-R33E LEA CO, NM



Closed Loop Oil Well



Note: The Rig and Closed System Company for this well have not been selected thus the set up shown is simply generic.

ROCA PRODUCTION, INC .

OUTLAW "22" FEDERAL COM. #1H

This well and it's anticipated facility are not expected to have Hydrogen Sulfide releases. However, there may be some Hydrogen Sulfide production in the area. There are no dwellings near the location but a contingency plan is in place and Roca Production, Inc. will have a company representative available to the drilling rig personnel throughout the drilling , completion and production operations. If Hydrogen Sulfide is detected or suspected, monitoring equipment will be called into service. An un-manned H₂S safety trailer and monitoring equipment will also be stationed on location during the drilling operation below 1375' to total depth.