ATS-11-8

Form 3160-3
(April 2004)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No. NM 120907 LC061936 BHL

6. If Indian, Allotee or Tribe Name ----------

1a. Type of work: [X] DRILL [ ] REENTER

7. If Unit or CA Agreement, Name and No. ----------

1b. Type of Well: [X] Oil Well [ ] Gas Well [ ] Other [X] Single Zone [ ] Multiple Zone

8. Lease Name and Well No. (38538) DOS XX "27" FEDERAL COM. 1H

2. Name of Operator OGX RESOURCES, LLC. (JEFF BIRKELBACH 432-685-1287) (217955)

9. API Well No. 30-025-40090

3a. Address P. O. BOX 2064 MIDLAND, TEXAS 79702

3b. Phone No. (include area code) 432-685-1287

10. Field and Pool, or Exploratory WILDCAT-BONE SPRING (96403)

4. Location of Well (Report location clearly and in accordance with any State requirements.*)
At surface Unit A 440' FNL & 440' FEL SECTION 27 T24S-R32E LEA CO.
At proposed prod. zone Unit P BHL 330' FSL & 330' FEL SECTION 27 T24S-R32E

11. Sec., T. R. M. or Blk. and Survey or Area SECTION 27 T24S-R32E

14. Distance in miles and direction from nearest town or post office* Approximately 30 miles North Northwest of Jal New Mexivo

12. County or Parish LEA CO.

13. State New Mexico

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 this well
330'	1840	160 acres

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. on file
NA	TVD-8900' MD-13,202'	NMB_000244

21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration
3582' GL	WHEN APPROVED 35	35 days

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.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification
6. Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature	Name (Printed/Typed)	Date
Joe T. Janica	Joe T. Janica	11/18/10
Title: Permit Eng.		

Approved by (Signature)	Name (Printed/Typed)	Date
/s/ Don Peterson		MAR 2 2011
Title: FIELD MANAGER	Office: CARLSBAD FIELD 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.

*(Instructions on page 2)

Kz 03/18/11

Approval Subject to General Requirements & Special Stipulations Attached

Carlsbad Controlled Water Basin

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

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

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

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

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

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

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Form C-102
Revised October 15, 2009

Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
30-025-40091	96403	WILDCAT-BONE SPRING

Property Code	Property Name	Well Number
38538	DOS XX "27" FEDERAL COM	1H

OGRID No.	Operator Name	Elevation
217955	OGX RESOURCES, LLC	3582'

Surface Location

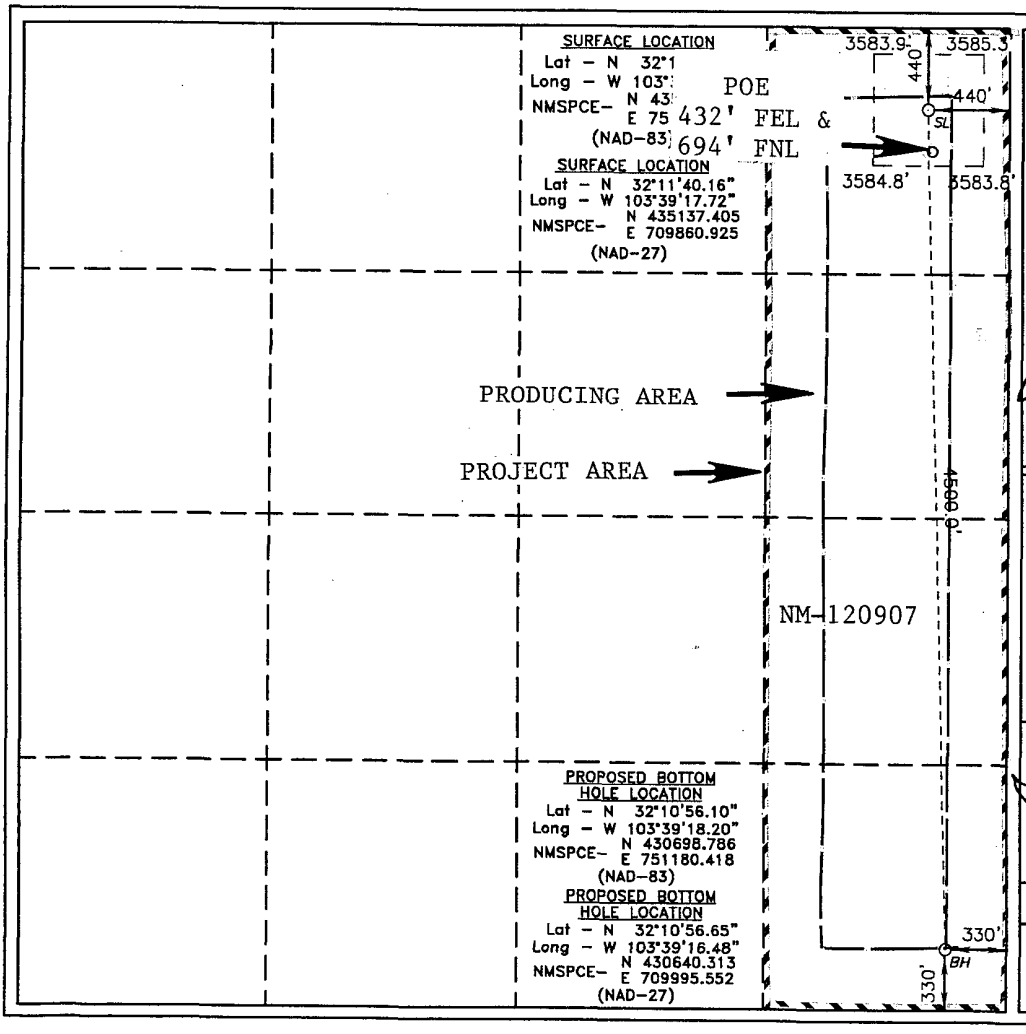
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	27	24 S	32 E		440	NORTH	440	EAST	LEA

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
P	27	24 S	32 E		330	SOUTH	330	EAST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
160			

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 to the best of my knowledge and 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 voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature — Date

Joe T. Janica — 11/18/10

Printed Name

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervison, and that the same is true and correct to the best of my belief.

OCTOBER 6, 2010

Date Surveyed

Signature & Seal of Professional Surveyor

GARY L. JONES 7977 REGISTERED PROFESSIONAL SURVEYOR

W.O. No. 23508

Certificate No. Gary L. Jones 7977

BASIN SURVEYS

EXHIBIT "A"

APPLICATION TO DRILL

OGX RESOURCES, LLC.
DOS XX "27" FEDERAL COM. #1H
UNIT "A" SECTION 27
T24S-R32E LEA CO. NM

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

1. LOCATION: 440' FNL & 440' FEL SECTION 27 T24S-R32E LEA CO. NM

2. ELEVATION ABOVE SEA LEVEL: 3582' GL

3. GEOLOGICAL NAME OF SURFACE FORMATION: Quaternery 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 hole.

5. PROPOSED DRILLING DEPTH: TVD-8900' MD-13,202'

6. ESTIMATED TOPS OF GEOLOGICAL FORMATIONS:

Rustler Anhydrite	1000'	Bell CAnyon	4674'
Top Salt	1350'	Cherry Canyon	5620'
Basal Anhydrite	4400'	Brushy Canyon	7095'
Lamar Lime	4648'	Bone Spring	8900'

7. POSSIBLE MINERAL BEARING FORMATIONS:

Cherry Canyon	Oil/Gas/Water		
Brushy Canyon	Oil/Gas/Water	Bone Spring	Oil/Gas/Water

Possible usable water estimated depth 150'±

8. CASING PROGRAM:

HOLE SIZE	INTERVAL	CASING OD	WEIGHT	THREAD	COLLAR	GRADE	CONDITION
26"	0-40'	20"	NA	NA	NA	Conductor	New
See COA 17½"	0-~~1100~~ 1115'	13 3/8"	48#	8-R	ST&C	H-40	New
See COA 11"	0-~~4600~~ 4700'	8 5/8"	32#	8-R	ST&C ~~LT&C~~	J-55	New
7 7/8"	0-13202'	5½"	17#	8-R Butt.	LT&C 0-8200' BT&C 8200'-13202'	P-110	New

Design Factors: Collapse 1.125 Burst 1.0 Body Yield 1.5 per NSL 12-7-10

Joint Strengtn 8-R 1.8 Buttress 1.6

APPLICATION TO DRILL

OGX RESOURCES, LLC.
DOS XX "27" FEDERAL COM. #1H
UNIT "A" SECTION 27
T24S-R32E LEA CO. NM

9. CASING CEMENTING & SETTING DEPTHS:

20"	Conductor	Set 40' of 20" conductor pipe and cement to surface with Redi-mix.
13 3/8"	Surface	Run and set ~~1100~~ 1115 See COA' of 13 3/8" 48# H-40 ST&C casing. Cement 635 Sx. of 35/65/6 Premium Plus Class "C" POZcement + 6% Bentonite, + 5% Salt, + 5% MPA-5, + 0.7% Sodium Metasilicate, + 5# LCM/Sx. Yield 2.00, tail in with 200 Sx of Premium Plus Class "C" cement + 2% CaCl, Yield 1.34, circulate cement to surface.
8 5/8"	Intermediate	Run and set ~~4600~~ 4700 See COA' of 8 5/8" 32# ST&C J-55 casing. Cement with 600 Sx. of 35/65 Premium Plus Class "C" POZ cement + 4% Bentonite, + 5% Salt, + 5% MPA-5, + 0.7 % Sodium Metasilicate, + 5# LCM/Sx. yield 2.02, tail in with 200 Sx. of Premium Plus Class "C" cement + 2% CaCl, Yield 1.34, circulate cement to surface.
5½"	Production	Run and set 13,202' of 5½" casing as follows: 5002' of 5½" 17# P-110 BT&C casing, 8200' of 5½" 17# P-110 LT&C casing. Cement with 500 Sx. of Premium Plus Class "C" cement + 4% Bentonite, + 5% Salt, + 5% MPA-5, + 0.7% Sodium Meticilicate, + 5# LCM/Sx.Yield 2.02, tail in with 600 Sx. of Class "C" cement + 2% CaCl, Yield 1.34, circulate cement to surface.

10. PRESSURE CONTROL EQUIPMENT: 13 5/8" required

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 nippledup 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 with proper threads will be available on the rig floor at all times. Exhibit "E-1" shows a hydraulically operated closing unit and a 5000 PSI working pressure choke manifold with dual adjustiable chokes. No abnormal pressures or temperatures are expected while drilling this well.

APPLICATION TO DRILL

OGX RESOURCES, LLC.
DOS XX "27" FEDERAL COM. #1H
UNIT "A" SECTION 27
T24S-R32E LEA CO. NM

11. PROPOSED MUD CIRCULATING SYSTRM:

DEPTH	MUD WT.	VISC.	FLUID LOSS	TYPE MUD SYSTEM
40-1115'	8.6-8.8	36-38	NC	Fresh water Spud Mud, use paper to control seepage.
1100-4700'	10.0-10.1	29-30	NC	Brine water use paper to control seepage and high viscosity sweeps to clean hole.
4700-8000'	8.4-9.1	28-29	NC	Fresh water use paper to control seepage and high viscosity sweeps to clesn hole.
8000-13,202'	8.4-9.1	34-36	12-15 cc or less	Same as above use Dynazan HB411 and starch to contro fluid loss and hole stabil ity.

See COA

A closed mud system will be employed during the drilling of this well all cuttings and fluids will be disposed in a State approved disposal facility.

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.

APPLICATION TO DRILL

OGX RESOURCES, LLC.
DOS XX "27" FEDERAL COM. #1H
UNIT "A" SECTION 27
T24S-R32E LEA CO. NM

12. LOGGING, CORING, AND TESTING PROGRAM: See COA

A. Open hole logs: Dual Laterolog, Neutron Density, Caliper, Gamma Ray from 8500' back to 8 5/8" casing shoe, run Gamma Ray, Neutron back to surface.

B. Mud logger will be rigged up on the hole after drilling out the 13 3/8" casing shoe.

C. No DST's or cores are planned at this time.

13. POTENTIAL HAZARDS:

No abnormal pressures or temperatures are expected. There is no known presence of H^2S in this area. If H^2S is encountered the operator will comply with the provisions of Onshore Oil and Gas Order No. 6. No lost circulation is expected to occur. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. Estimated BHP 4250 PSI, and Estimated BHT 155°.

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 as soon after BLM approval and as soon as a rig will be available. Move in operation and drilling is expected to take 35 days. If production casing is run then an additional 30 days will be needed to complete well and construct surface facilities and/or lay flowlines in order to place well on production.

15. OTHER FACETS OF OPERATIONS:

After running casing, cased hole Gamma Ray, Neutron Collar logs will be run from TD back to all possible productive zones. The Bone Spring formation will be perforated and stimulated in order to establish production. The well will be swab tested and potentialed as an oil well.

DOS XX "27"Fed Com No.1H
Paduca (Bone Spring) Field
Lea County, New Mexico
Drilling Procedure
Oct 2010

General Information

Lease:	DOS XX "27" Fed Com	AFE BCP:	$
Well No.:	1H	AFE ACP:	
Field:	Paduca	AFE Total:	
County:	Lea	AFE NO:	
State:	New Mexico	API No.:	30-000-XXXXX
Section:	27	Permit Date:	XX/XX/10
Township:	24S	Permit TVD:	9,000'
Range:	32E	Proposed MD:	13,202'
Surface Section Ties:	440' FNL & 440' FEL	Drilling Days:	30
BHL (target)	330' FSL & 330' FEL		
Ground Level:	3582'	KB:	3599'
Latitude:	32°11'40.61" N	Longitude	103°39'19.44"W

Well Objectives

The primary objective of this well is to drill the Avalon Shale horizontally without a pilot hole. Open hole logging will be accomplished at kick-off pt.

Directions To Well

Special Drilling Considerations

1. No hunting for game is permitted. No fire arms are to be taken to the location. Keep trash picked up on location and road.
2. Do not run hard-banded or hard-faced drill pipe in casing without consulting OGX.
3. Cement must be circulated on surface and intermediate. If cement does not circulate, run a temperature survey and contact the BLM and Operations Engineer for remedial instructions.
4. BOP equipment will be NU on the 13-3/8" surface casing. All safety and well control equipment should be rigged up and operational prior to drilling out the 13-3/8" casing shoe.

DRILLING PROGRAM

Geologic Name of Surface Formation:

Permian

FORMATION TOPS / ANTICIPATED FRESH WATER, OIL, or GAS / PRESSURES

Formation	Depth	Frm Pres	Remarks
Basal Anhydrite	4400'	10 ppge	Drlg fluid must be saturated salt water
Lamar	4648'	8.4ppge	Water
Bell Canyon	4674'	8.4ppge	Water
Cherry Canyon	5620'	8.4 ppge	Oil / Gas / Formation water /Poss.H_2S
Brushy Canyon	7095'	9.1 ppge	Oil / Gas / Formation water
TVD	8400'	9.1 ppge	Oil / Gas / Formation water
Bone Spring	8690'	9.1 ppge	Oil / Gas / Formation water

No other formations are expected to yield oil, gas or fresh water in measurable volumes. The surface fresh water sands will be protected by setting 13 3/8" casing at 1100' and circulating cement back to surface. Potash/ fresh water sands will be protected by setting 8 5/8" casing at 4600' / circulating cement on the 8 5/8" string. . The hydrocarbon producing intervals will be isolated by setting a 5 ½" production string and circulating cement 500' above the 8 5/8" csg. shoe (4100').

CASING PROGRAM:

HOLE SIZE	DEPTH	OD Csg	WEIGHT	COLLAR	GRADE	NEW/USED
17 1/2"	0-~~1100'~~ 1115	13 3/8"	48	STC	H40	New
11"	0-~~4600'~~ 4700	8 5/8"	32	STC/LTC	J55	New
7 7/8"	0-8200'	5 1/2"	17	LTC	P110	New
7 7/8"	8200-13202'	5 1/2"	17	BTC	P110	New

See Cont

Casing weight and grades are minimum – higher weights & better grades may be substituted

(8 5/8" 32# will be special drift to 7.921)
(5 ½" BTC will be run thru the curve & Lateral)

DEPTH	OD Csg	WEIGHT	factors: Burst	/ Collapse	/ Tension
0-~~1100'~~ 1115'	13 3/8"	48	1.54	1.46	9.7+
0-~~4600'~~ 4700'	8 5/8"	32	1.24	1.15*	2.95
0-13202'	5 ½"	17	1.32	2.01	3.55

** The Intermediate hole will never be evacuated**

(51/2 Burst & Collapse Calculated @ 8900' TVD)

CEMENT PROGRAM:

13 3/8" Surface

Spacer .....50 bbls of fresh water
Slurry .....Lead: 35:65:6 – Poz: Prem Plus C + 6% Bentonite + 5% salt + 5% MPA-5 + .7% Sodium Metasilicate + 5 lbs LCM + 97.9 fresh water
Tail: Premium Plus C + 2% $CaCl_2$ + 56.4% Fresh Water

Cement Properties	**Lead**	**Tail**
Est Volume (sacks)	635	200
Density (ppg)	12.80	14.80
Yield (ft3/sx)	2.00	1.34
Mix Water, gps	10.21	6.36
Thickening Time, hrs:min		~3:30
Free Water, %		0
Fluid Loss, cc's		~850
Top of Cement	surface	

8 5/8" Intermediate

Spacer .....30 bbls of fresh water
Lead ..... 35:65 – Poz: Prem Plus C + 4% Bentonite + 5% salt + 5% MPA-5 + .7% Sodium Metasilicate + 5 lbs LCM + 99.6% fresh water
Tail .....C + 2% $CaCl_2$ + 56.4% fresh water

Cement Properties

	Lead	Tail
Est Volume (sacks)	600	200
Density (ppg)	12.7	14.8
Yield (ft3/sx)	2.02	1.34
Mix Water, gps	10.39	6.36
Thickening Time, hrs:min	4:07	3:32
Free Water, %	2.0	0
Fluid Loss, cc's	~750	~600
Top of Cement	surface	

5 1/2" Production

Spacer .....30 bbls of fresh water
Lead ..... 35:65 – Poz: Prem Plus C + 4% Bentonite + 5% salt + 5% MPA-5 + .7% Sodium Metasilicate + 5 lbs LCM + 99.6% fresh water
Tail .....C + 2% $CaCl_2$ + 56.4% fresh water

Cement Properties

	Lead	Tail
Est Volume (sacks)	500	600
Density (ppg)	12.7	14.8
Yield (ft3/sx)	2.02	1.34
Mix Water, gps	10.39	6.36
Thickening Time, hrs:min	4:07	3:32
Free Water, %	2.0	0
Fluid Loss, cc's	~750	~600
Top of Cement	surface	

The above cement volumes will be revised pending fluid and open hole caliper measurements.

Kick-Off plug in Pilot Hole for Horizontal

No Plug Required

MUD PROPERTIES SUMMARY:

Depth (feet)	Weight (ppg)	Viscosity (sec/1000cc)	Fluid Loss (cc/30min)	PV (cps)	YP (lb/100ft²)	Mud Type
0' – ~~1100'~~ 1115' **Set 13-3/8" Casing**	8.6 – 8.8	36 – 38	N/C	6 – 10	6 – 20	**Spud Mud**
~~1100'~~ 1115' – ~~4,600'~~ 4760' **Set 8-5/8" Casing**	10.0 – 10.1	29 – 30	N/C	0 – 1	0 – 1	**Brine**
4,600' – 8,000'	8.4 – 9.1	28 – 29	N/C	0 – 1	0 – 1	**Fresh Water**
8,000' – 13202' MD **Set 5-1/2"**	8.4 – 9.10	34 – 36	12 – 15	4 – 8	4 – 8	**Dynazan / Starch** **HB 411**

Auxiliary Well Control & Monitoring Equipment:

A Kelly cock will be in the drill string at all times.

A full opening drill pipe stabbing valve having the appropriate connections will be on the floor at all times.

H_2S detection equipment will be in operation after drilling out the 13 3/8" casing shoe until the 5 ½" csg is cemented.

LOGGING, CORING, AND TESTING

No logs at surface.

Mud loggers on below 13 3/8" casing shoe – no electric logs at intermediate depth

The Vertical @ KO pt. (Production) hole will be logged: Gyro (Thru DP) & GR / Dual Laterolog / Neutron-Density / Caliper

No DST's or pressure testing is anticipated.

The horizontal lateral will be mud logged and GR via MWD.

Potential Hazards:

No abnormal pressures or temperatures are expected. There is no known presence of H_2S in this area. If H_2S Is encountered the operator will comply with the provisions of Onshore Oil & Gas Order No.6. No loss circulation is expected to occur. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. Estimated BHP is 4250 psi. & BHT is 155° F.

Anticipated Starting Date & Duration:

Road and location construction will begin after the BLM has approved the APD. Anticipated spud date will be ASAP subsequent to APD approval. Move in and drilling operations will take 35 days with an additional 25 days to complete the well and construct production facilities.

OGX

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OGX Resources

Lea County
Dos XX "27" Federal Com
#1H
OH

Plan: Plan #1

Pathfinder X & Y Planning Report

26 October, 2010

PATHFINDER®
A Schlumberger Company

Company:	OGX Resources	**Local Co-ordinate Reference:**	Well #1H
Project:	Lea County	**TVD Reference:**	WELL @ 3601.00ft (Original Well Elev)
Site:	Dos XX "27" Federal Com	**MD Reference:**	WELL @ 3601.00ft (Original Well Elev)
Well:	#1H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan #1	**Database:**	Midland Database

Project Lea County

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

Site Dos XX "27" Federal Com

Site Position:		**Northing:**	435,137.405 ft	**Latitude:**	32° 11' 40.164 N
From:	Map	**Easting:**	709,860.925 ft	**Longitude:**	103° 39' 17.719 W
Position Uncertainty:	0.00 ft	**Slot Radius:**	"	**Grid Convergence:**	0.36 °

Well #1H

Well Position	**+N/-S**	0.00 ft	**Northing:**	435,137.405 ft	**Latitude:**	32° 11' 40.164 N
	+E/-W	0.00 ft	**Easting:**	709,860.925 ft	**Longitude:**	103° 39' 17.719 W
Position Uncertainty		0.00 ft	**Wellhead Elevation:**	ft	**Ground Level:**	3,582.00 ft

Wellbore OH

Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF200510	10/18/10	7.69	60.18	48,687

Design Plan #1

Audit Notes:

Version:	**Phase:**	PLAN	**Tie On Depth:**	0.00

Vertical Section:	**Depth From (TVD) (ft)**	**+N/-S (ft)**	**+E/-W (ft)**	**Direction (°)**
	0.00	0.00	0.00	178.28

Survey Tool Program **Date** 10/26/10

From (ft)	**To (ft)**	**Survey (Wellbore)**	**Tool Name**	**Description**
0.00	13,202.36	Plan #1 (OH)	MWD	MWD - Standard

Company:	OGX Resources	**Local Co-ordinate Reference:**	Well #1H
Project:	Lea County	**TVD Reference:**	WELL @ 3601.00ft (Original Well Elev)
Site:	Dos XX "27" Federal Com	**MD Reference:**	WELL @ 3601.00ft (Original Well Elev)
Well:	#1H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan #1	**Database:**	Midland Database

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	-3,601.00	0.00	0.00	0.00	0.00	435,137.41	709,860.93
100.00	0.00	0.00	100.00	-3,501.00	0.00	0.00	0.00	0.00	435,137.41	709,860.93
200.00	0.00	0.00	200.00	-3,401.00	0.00	0.00	0.00	0.00	435,137.41	709,860.93
300.00	0.00	0.00	300.00	-3,301.00	0.00	0.00	0.00	0.00	435,137.41	709,860.93
400.00	0.00	0.00	400.00	-3,201.00	0.00	0.00	0.00	0.00	435,137.41	709,860.93
500.00	0.00	0.00	500.00	-3,101.00	0.00	0.00	0.00	0.00	435,137.41	709,860.93
600.00	0.00	0.00	600.00	-3,001.00	0.00	0.00	0.00	0.00	435,137.41	709,860.93
700.00	0.00	0.00	700.00	-2,901.00	0.00	0.00	0.00	0.00	435,137.41	709,860.93
800.00	0.00	0.00	800.00	-2,801.00	0.00	0.00	0.00	0.00	435,137.41	709,860.93
900.00	0.00	0.00	900.00	-2,701.00	0.00	0.00	0.00	0.00	435,137.41	709,860.93
1,000.00	0.00	0.00	1,000.00	-2,601.00	0.00	0.00	0.00	0.00	435,137.41	709,860.93
1,100.00	0.00	0.00	1,100.00	-2,501.00	0.00	0.00	0.00	0.00	435,137.41	709,860.93
1,200.00	0.00	0.00	1,200.00	-2,401.00	0.00	0.00	0.00	0.00	435,137.41	709,860.93
1,300.00	0.00	0.00	1,300.00	-2,301.00	0.00	0.00	0.00	0.00	435,137.41	709,860.93
1,400.00	0.00	0.00	1,400.00	-2,201.00	0.00	0.00	0.00	0.00	435,137.41	709,860.93
1,500.00	0.00	0.00	1,500.00	-2,101.00	0.00	0.00	0.00	0.00	435,137.41	709,860.93
1,600.00	0.00	0.00	1,600.00	-2,001.00	0.00	0.00	0.00	0.00	435,137.41	709,860.93
1,700.00	0.00	0.00	1,700.00	-1,901.00	0.00	0.00	0.00	0.00	435,137.41	709,860.93
1,800.00	0.00	0.00	1,800.00	-1,801.00	0.00	0.00	0.00	0.00	435,137.41	709,860.93
1,900.00	0.00	0.00	1,900.00	-1,701.00	0.00	0.00	0.00	0.00	435,137.41	709,860.93
2,000.00	0.00	0.00	2,000.00	-1,601.00	0.00	0.00	0.00	0.00	435,137.41	709,860.93
2,100.00	0.00	0.00	2,100.00	-1,501.00	0.00	0.00	0.00	0.00	435,137.41	709,860.93
2,200.00	0.00	0.00	2,200.00	-1,401.00	0.00	0.00	0.00	0.00	435,137.41	709,860.93
2,300.00	0.00	0.00	2,300.00	-1,301.00	0.00	0.00	0.00	0.00	435,137.41	709,860.93
2,400.00	0.00	0.00	2,400.00	-1,201.00	0.00	0.00	0.00	0.00	435,137.41	709,860.93
2,500.00	0.00	0.00	2,500.00	-1,101.00	0.00	0.00	0.00	0.00	435,137.41	709,860.93
2,600.00	0.00	0.00	2,600.00	-1,001.00	0.00	0.00	0.00	0.00	435,137.41	709,860.93

Company:	OGX Resources	**Local Co-ordinate Reference:**	Well #1H
Project:	Lea County	**TVD Reference:**	WELL @ 3601.00ft (Original Well Elev)
Site:	Dos XX "27" Federal Com	**MD Reference:**	WELL @ 3601.00ft (Original Well Elev)
Well:	#1H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan #1	**Database:**	Midland Database

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)
2,700.00	0.00	0.00	2,700.00	-901.00	0.00	0.00	0.00	0.00	435,137.41	709,860.93
2,800.00	0.00	0.00	2,800.00	-801.00	0.00	0.00	0.00	0.00	435,137.41	709,860.93
2,900.00	0.00	0.00	2,900.00	-701.00	0.00	0.00	0.00	0.00	435,137.41	709,860.93
3,000.00	0.00	0.00	3,000.00	-601.00	0.00	0.00	0.00	0.00	435,137.41	709,860.93
3,100.00	0.00	0.00	3,100.00	-501.00	0.00	0.00	0.00	0.00	435,137.41	709,860.93
3,200.00	0.00	0.00	3,200.00	-401.00	0.00	0.00	0.00	0.00	435,137.41	709,860.93
3,300.00	0.00	0.00	3,300.00	-301.00	0.00	0.00	0.00	0.00	435,137.41	709,860.93
3,400.00	0.00	0.00	3,400.00	-201.00	0.00	0.00	0.00	0.00	435,137.41	709,860.93
3,500.00	0.00	0.00	3,500.00	-101.00	0.00	0.00	0.00	0.00	435,137.41	709,860.93
3,600.00	0.00	0.00	3,600.00	-1.00	0.00	0.00	0.00	0.00	435,137.41	709,860.93
3,700.00	0.00	0.00	3,700.00	99.00	0.00	0.00	0.00	0.00	435,137.41	709,860.93
3,800.00	0.00	0.00	3,800.00	199.00	0.00	0.00	0.00	0.00	435,137.41	709,860.93
3,900.00	0.00	0.00	3,900.00	299.00	0.00	0.00	0.00	0.00	435,137.41	709,860.93
4,000.00	0.00	0.00	4,000.00	399.00	0.00	0.00	0.00	0.00	435,137.41	709,860.93
4,100.00	0.00	0.00	4,100.00	499.00	0.00	0.00	0.00	0.00	435,137.41	709,860.93
4,200.00	0.00	0.00	4,200.00	599.00	0.00	0.00	0.00	0.00	435,137.41	709,860.93
4,300.00	0.00	0.00	4,300.00	699.00	0.00	0.00	0.00	0.00	435,137.41	709,860.93
4,400.00	0.00	0.00	4,400.00	799.00	0.00	0.00	0.00	0.00	435,137.41	709,860.93
4,500.00	0.00	0.00	4,500.00	899.00	0.00	0.00	0.00	0.00	435,137.41	709,860.93
4,600.00	0.00	0.00	4,600.00	999.00	0.00	0.00	0.00	0.00	435,137.41	709,860.93
4,700.00	0.00	0.00	4,700.00	1,099.00	0.00	0.00	0.00	0.00	435,137.41	709,860.93
4,800.00	0.00	0.00	4,800.00	1,199.00	0.00	0.00	0.00	0.00	435,137.41	709,860.93
4,900.00	0.00	0.00	4,900.00	1,299.00	0.00	0.00	0.00	0.00	435,137.41	709,860.93
5,000.00	0.00	0.00	5,000.00	1,399.00	0.00	0.00	0.00	0.00	435,137.41	709,860.93
5,100.00	0.00	0.00	5,100.00	1,499.00	0.00	0.00	0.00	0.00	435,137.41	709,860.93
5,200.00	0.00	0.00	5,200.00	1,599.00	0.00	0.00	0.00	0.00	435,137.41	709,860.93
5,300.00	0.00	0.00	5,300.00	1,699.00	0.00	0.00	0.00	0.00	435,137.41	709,860.93

Company:	OGX Resources	**Local Co-ordinate Reference:**	Well #1H
Project:	Lea County	**TVD Reference:**	WELL @ 3601.00ft (Original Well Elev)
Site:	Dos XX "27" Federal Com	**MD Reference:**	WELL @ 3601.00ft (Original Well Elev)
Well:	#1H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan #1	**Database:**	Midland Database

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)
5,400.00	0.00	0.00	5,400.00	1,799.00	0.00	0.00	0.00	0.00	435,137.41	709,860.93
5,500.00	0.00	0.00	5,500.00	1,899.00	0.00	0.00	0.00	0.00	435,137.41	709,860.93
5,600.00	0.00	0.00	5,600.00	1,999.00	0.00	0.00	0.00	0.00	435,137.41	709,860.93
5,700.00	0.00	0.00	5,700.00	2,099.00	0.00	0.00	0.00	0.00	435,137.41	709,860.93
5,800.00	0.00	0.00	5,800.00	2,199.00	0.00	0.00	0.00	0.00	435,137.41	709,860.93
5,900.00	0.00	0.00	5,900.00	2,299.00	0.00	0.00	0.00	0.00	435,137.41	709,860.93
6,000.00	0.00	0.00	6,000.00	2,399.00	0.00	0.00	0.00	0.00	435,137.41	709,860.93
6,100.00	0.00	0.00	6,100.00	2,499.00	0.00	0.00	0.00	0.00	435,137.41	709,860.93
6,200.00	0.00	0.00	6,200.00	2,599.00	0.00	0.00	0.00	0.00	435,137.41	709,860.93
6,300.00	0.00	0.00	6,300.00	2,699.00	0.00	0.00	0.00	0.00	435,137.41	709,860.93
6,400.00	0.00	0.00	6,400.00	2,799.00	0.00	0.00	0.00	0.00	435,137.41	709,860.93
6,500.00	0.00	0.00	6,500.00	2,899.00	0.00	0.00	0.00	0.00	435,137.41	709,860.93
6,600.00	0.00	0.00	6,600.00	2,999.00	0.00	0.00	0.00	0.00	435,137.41	709,860.93
6,700.00	0.00	0.00	6,700.00	3,099.00	0.00	0.00	0.00	0.00	435,137.41	709,860.93
6,800.00	0.00	0.00	6,800.00	3,199.00	0.00	0.00	0.00	0.00	435,137.41	709,860.93
6,900.00	0.00	0.00	6,900.00	3,299.00	0.00	0.00	0.00	0.00	435,137.41	709,860.93
7,000.00	0.00	0.00	7,000.00	3,399.00	0.00	0.00	0.00	0.00	435,137.41	709,860.93
7,100.00	0.00	0.00	7,100.00	3,499.00	0.00	0.00	0.00	0.00	435,137.41	709,860.93
7,200.00	0.00	0.00	7,200.00	3,599.00	0.00	0.00	0.00	0.00	435,137.41	709,860.93
7,300.00	0.00	0.00	7,300.00	3,699.00	0.00	0.00	0.00	0.00	435,137.41	709,860.93
7,400.00	0.00	0.00	7,400.00	3,799.00	0.00	0.00	0.00	0.00	435,137.41	709,860.93
7,500.00	0.00	0.00	7,500.00	3,899.00	0.00	0.00	0.00	0.00	435,137.41	709,860.93
7,600.00	0.00	0.00	7,600.00	3,999.00	0.00	0.00	0.00	0.00	435,137.41	709,860.93
7,700.00	0.00	0.00	7,700.00	4,099.00	0.00	0.00	0.00	0.00	435,137.41	709,860.93
7,800.00	0.00	0.00	7,800.00	4,199.00	0.00	0.00	0.00	0.00	435,137.41	709,860.93
7,900.00	0.00	0.00	7,900.00	4,299.00	0.00	0.00	0.00	0.00	435,137.41	709,860.93
8,000.00	0.00	0.00	8,000.00	4,399.00	0.00	0.00	0.00	0.00	435,137.41	709,860.93

Company:	OGX Resources	**Local Co-ordinate Reference:**	Well #1H
Project:	Lea County	**TVD Reference:**	WELL @ 3601.00ft (Original Well Elev)
Site:	Dos XX "27" Federal Com	**MD Reference:**	WELL @ 3601.00ft (Original Well Elev)
Well:	#1H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan #1	**Database:**	Midland Database

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)
8,100.00	0.00	0.00	8,100.00	4,499.00	0.00	0.00	0.00	0.00	435,137.41	709,860.93
8,200.00	0.00	0.00	8,200.00	4,599.00	0.00	0.00	0.00	0.00	435,137.41	709,860.93
8,300.00	0.00	0.00	8,300.00	4,699.00	0.00	0.00	0.00	0.00	435,137.41	709,860.93
8,400.00	0.00	0.00	8,400.00	4,799.00	0.00	0.00	0.00	0.00	435,137.41	709,860.93
8,441.60	0.00	0.00	8,441.60	4,840.60	0.00	0.00	0.00	0.00	435,137.41	709,860.93
8,450.00	1.05	178.28	8,450.00	4,849.00	-0.08	0.00	0.08	12.50	435,137.33	709,860.93
8,475.00	4.17	178.28	8,474.97	4,873.97	-1.22	0.04	1.22	12.50	435,136.19	709,860.96
8,500.00	7.30	178.28	8,499.84	4,898.84	-3.71	0.11	3.72	12.50	435,133.69	709,861.04
8,525.00	10.42	178.28	8,524.54	4,923.54	-7.56	0.23	7.57	12.50	435,129.84	709,861.15
8,550.00	13.55	178.28	8,548.99	4,947.99	-12.75	0.38	12.76	12.50	435,124.65	709,861.31
8,575.00	16.67	178.28	8,573.13	4,972.13	-19.27	0.58	19.27	12.50	435,118.14	709,861.50
8,600.00	19.80	178.28	8,596.87	4,995.87	-27.08	0.81	27.10	12.50	435,110.32	709,861.74
8,625.00	22.92	178.28	8,620.15	5,019.15	-36.18	1.09	36.20	12.50	435,101.22	709,862.01
8,650.00	26.05	178.28	8,642.90	5,041.90	-46.54	1.40	46.56	12.50	435,090.86	709,862.32
8,675.00	29.17	178.28	8,665.05	5,064.05	-58.12	1.75	58.15	12.50	435,079.28	709,862.67
8,700.00	32.30	178.28	8,686.53	5,085.53	-70.89	2.13	70.92	12.50	435,066.52	709,863.05
8,725.00	35.42	178.28	8,707.29	5,106.29	-84.81	2.55	84.85	12.50	435,052.59	709,863.47
8,750.00	38.55	178.28	8,727.26	5,126.26	-99.84	3.00	99.89	12.50	435,037.56	709,863.92
8,775.00	41.67	178.28	8,746.37	5,145.37	-115.94	3.48	115.99	12.50	435,021.47	709,864.41
8,800.00	44.80	178.28	8,764.59	5,163.59	-133.05	4.00	133.11	12.50	435,004.35	709,864.92
8,825.00	47.92	178.28	8,781.84	5,180.84	-151.14	4.54	151.20	12.50	434,986.27	709,865.46
8,850.00	51.05	178.28	8,798.08	5,197.08	-170.13	5.11	170.21	12.50	434,967.27	709,866.03
8,875.00	54.17	178.28	8,813.26	5,212.26	-189.98	5.70	190.07	12.50	434,947.42	709,866.63
8,900.00	57.30	178.28	8,827.33	5,226.33	-210.63	6.32	210.73	12.50	434,926.77	709,867.25
8,925.00	60.42	178.28	8,840.26	5,239.26	-232.02	6.97	232.12	12.50	434,905.39	709,867.89
8,950.00	63.55	178.28	8,852.00	5,251.00	-254.07	7.63	254.19	12.50	434,883.33	709,868.55
8,975.00	66.67	178.28	8,862.52	5,261.52	-276.74	8.31	276.86	12.50	434,860.67	709,869.24

Company:	OGX Resources	**Local Co-ordinate Reference:**	Well #1H
Project:	Lea County	**TVD Reference:**	WELL @ 3601.00ft (Original Well Elev)
Site:	Dos XX "27" Federal Com	**MD Reference:**	WELL @ 3601.00ft (Original Well Elev)
Well:	#1H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan #1	**Database:**	Midland Database

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)
9,000.00	69.79	178.28	8,871.79	5,270.79	-299.94	9.01	300.08	12.50	434,837.46	709,869.93
9,025.00	72.92	178.28	8,879.78	5,278.78	-323.62	9.72	323.76	12.50	434,813.79	709,870.64
9,050.00	76.04	178.28	8,886.47	5,285.47	-347.69	10.44	347.85	12.50	434,789.71	709,871.37
9,075.00	79.17	178.28	8,891.83	5,290.83	-372.09	11.17	372.26	12.50	434,765.31	709,872.10
9,100.00	82.29	178.28	8,895.86	5,294.86	-396.75	11.91	396.93	12.50	434,740.65	709,872.84
9,125.00	85.42	178.28	8,898.54	5,297.54	-421.60	12.66	421.79	12.50	434,715.81	709,873.58
9,150.00	88.54	178.28	8,899.85	5,298.85	-446.55	13.41	446.75	12.50	434,690.86	709,874.33
9,161.65	90.00	178.28	8,900.00	5,299.00	-458.19	13.76	458.40	12.50	434,679.21	709,874.68
9,200.00	90.00	178.28	8,900.00	5,299.00	-496.52	14.91	496.75	0.00	434,640.88	709,875.83
9,300.00	90.00	178.28	8,900.00	5,299.00	-596.48	17.91	596.75	0.00	434,540.93	709,878.84
9,400.00	90.00	178.28	8,900.00	5,299.00	-696.43	20.91	696.75	0.00	434,440.97	709,881.84
9,500.00	90.00	178.28	8,900.00	5,299.00	-796.39	23.91	796.75	0.00	434,341.02	709,884.84
9,600.00	90.00	178.28	8,900.00	5,299.00	-896.34	26.92	896.75	0.00	434,241.06	709,887.84
9,700.00	90.00	178.28	8,900.00	5,299.00	-996.30	29.92	996.75	0.00	434,141.11	709,890.84
9,800.00	90.00	178.28	8,900.00	5,299.00	-1,096.25	32.92	1,096.75	0.00	434,041.15	709,893.84
9,900.00	90.00	178.28	8,900.00	5,299.00	-1,196.21	35.92	1,196.75	0.00	433,941.20	709,896.85
10,000.00	90.00	178.28	8,900.00	5,299.00	-1,296.16	38.92	1,296.75	0.00	433,841.24	709,899.85
10,100.00	90.00	178.28	8,900.00	5,299.00	-1,396.12	41.92	1,396.75	0.00	433,741.29	709,902.85
10,200.00	90.00	178.28	8,900.00	5,299.00	-1,496.07	44.93	1,496.75	0.00	433,641.33	709,905.85
10,300.00	90.00	178.28	8,900.00	5,299.00	-1,596.03	47.93	1,596.75	0.00	433,541.38	709,908.85
10,400.00	90.00	178.28	8,900.00	5,299.00	-1,695.98	50.93	1,696.75	0.00	433,441.42	709,911.85
10,500.00	90.00	178.28	8,900.00	5,299.00	-1,795.94	53.93	1,796.75	0.00	433,341.47	709,914.85
10,600.00	90.00	178.28	8,900.00	5,299.00	-1,895.89	56.93	1,896.75	0.00	433,241.51	709,917.86
10,700.00	90.00	178.28	8,900.00	5,299.00	-1,995.85	59.93	1,996.75	0.00	433,141.56	709,920.86
10,800.00	90.00	178.28	8,900.00	5,299.00	-2,095.80	62.93	2,096.75	0.00	433,041.60	709,923.86
10,900.00	90.00	178.28	8,900.00	5,299.00	-2,195.76	65.94	2,196.75	0.00	432,941.65	709,926.86
11,000.00	90.00	178.28	8,900.00	5,299.00	-2,295.71	68.94	2,296.75	0.00	432,841.69	709,929.86

Company:	OGX Resources	**Local Co-ordinate Reference:**	Well #1H
Project:	Lea County	**TVD Reference:**	WELL @ 3601.00ft (Original Well Elev)
Site:	Dos XX "27" Federal Com	**MD Reference:**	WELL @ 3601.00ft (Original Well Elev)
Well:	#1H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan #1	**Database:**	Midland Database

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)
11,100.00	90.00	178.28	8,900.00	5,299.00	-2,395.67	71.94	2,396.75	0.00	432,741.74	709,932.86
11,200.00	90.00	178.28	8,900.00	5,299.00	-2,495.62	74.94	2,496.75	0.00	432,641.78	709,935.87
11,300.00	90.00	178.28	8,900.00	5,299.00	-2,595.58	77.94	2,596.75	0.00	432,541.83	709,938.87
11,400.00	90.00	178.28	8,900.00	5,299.00	-2,695.53	80.94	2,696.75	0.00	432,441.87	709,941.87
11,500.00	90.00	178.28	8,900.00	5,299.00	-2,795.49	83.94	2,796.75	0.00	432,341.92	709,944.87
11,600.00	90.00	178.28	8,900.00	5,299.00	-2,895.44	86.95	2,896.75	0.00	432,241.96	709,947.87
11,700.00	90.00	178.28	8,900.00	5,299.00	-2,995.40	89.95	2,996.75	0.00	432,142.01	709,950.87
11,800.00	90.00	178.28	8,900.00	5,299.00	-3,095.35	92.95	3,096.75	0.00	432,042.05	709,953.87
11,900.00	90.00	178.28	8,900.00	5,299.00	-3,195.31	95.95	3,196.75	0.00	431,942.10	709,956.88
12,000.00	90.00	178.28	8,900.00	5,299.00	-3,295.26	98.95	3,296.75	0.00	431,842.14	709,959.88
12,100.00	90.00	178.28	8,900.00	5,299.00	-3,395.22	101.95	3,396.75	0.00	431,742.19	709,962.88
12,200.00	90.00	178.28	8,900.00	5,299.00	-3,495.17	104.96	3,496.75	0.00	431,642.23	709,965.88
12,300.00	90.00	178.28	8,900.00	5,299.00	-3,595.13	107.96	3,596.75	0.00	431,542.28	709,968.88
12,400.00	90.00	178.28	8,900.00	5,299.00	-3,695.08	110.96	3,696.75	0.00	431,442.32	709,971.88
12,500.00	90.00	178.28	8,900.00	5,299.00	-3,795.04	113.96	3,796.75	0.00	431,342.37	709,974.88
12,600.00	90.00	178.28	8,900.00	5,299.00	-3,894.99	116.96	3,896.75	0.00	431,242.41	709,977.89
12,700.00	90.00	178.28	8,900.00	5,299.00	-3,994.95	119.96	3,996.75	0.00	431,142.46	709,980.89
12,800.00	90.00	178.28	8,900.00	5,299.00	-4,094.90	122.96	4,096.75	0.00	431,042.50	709,983.89
12,900.00	90.00	178.28	8,900.00	5,299.00	-4,194.86	125.97	4,196.75	0.00	430,942.55	709,986.89
13,000.00	90.00	178.28	8,900.00	5,299.00	-4,294.81	128.97	4,296.75	0.00	430,842.59	709,989.89
13,100.00	90.00	178.28	8,900.00	5,299.00	-4,394.77	131.97	4,396.75	0.00	430,742.64	709,992.89
13,202.36	90.00	178.28	8,900.00	5,299.00	-4,497.08	135.04	4,499.11	0.00	430,640.33	709,995.97
PBHL(Dos#1)										

Company:	OGX Resources	**Local Co-ordinate Reference:**	Well #1H
Project:	Lea County	**TVD Reference:**	WELL @ 3601.00ft (Original Well Elev)
Site:	Dos XX "27" Federal Com	**MD Reference:**	WELL @ 3601.00ft (Original Well Elev)
Well:	#1H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan #1	**Database:**	Midland Database

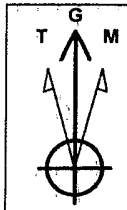
Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
PBHL(Dos#1)	0.00	0.00	8,400.00	-4,497.09	134.63	430,640.313	709,995.552	32° 10' 55.654 N	103° 39' 16.483 W
- plan misses target center by 500.00ft at 13202.36ft MD (8900.00 TVD, -4497.08 N, 135.04 E)									
- Point									

Checked By: _____ Approved By: _____ Date: _____

OGX

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



Azimuths to Grid North
True North: -0.36°
Magnetic North: 7.33°

Magnetic Field
Strength: 48686.8snT
Dip Angle: 60.18°
Date: 10/18/2010
Model: IGRF200510

PATHFINDER®
A Schlumberger Company

Project: Lea County
Site: Dos XX "27" Federal Com
Well: #1H
Wellbore: OH
Plan: Plan #1 (#1H/OH)

WELL DETAILS: #1H

Ground Elevation:: 3582.00
RKB Elevation: WELL @ 3601.00ft (Original Well Elev)
Rig Name: Original Well Elev

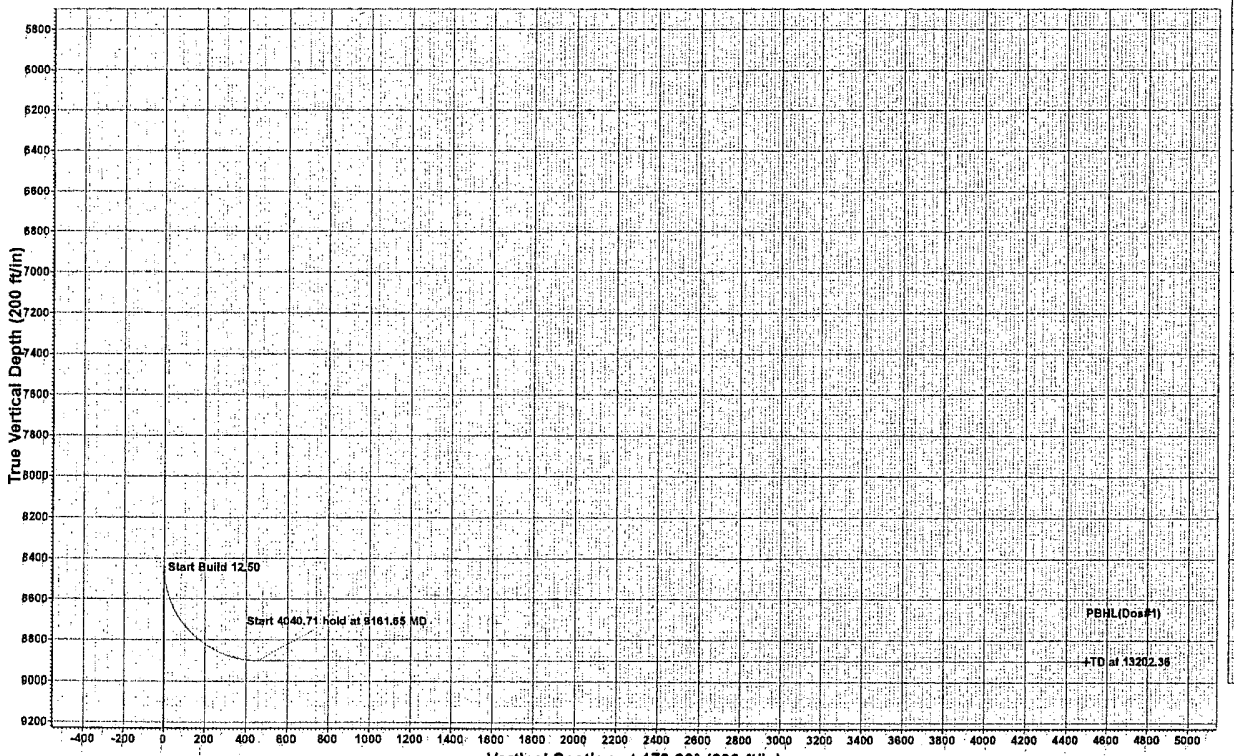
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	435137.405	709860.925	32° 11' 40.164 N	103° 39' 17.719 W	

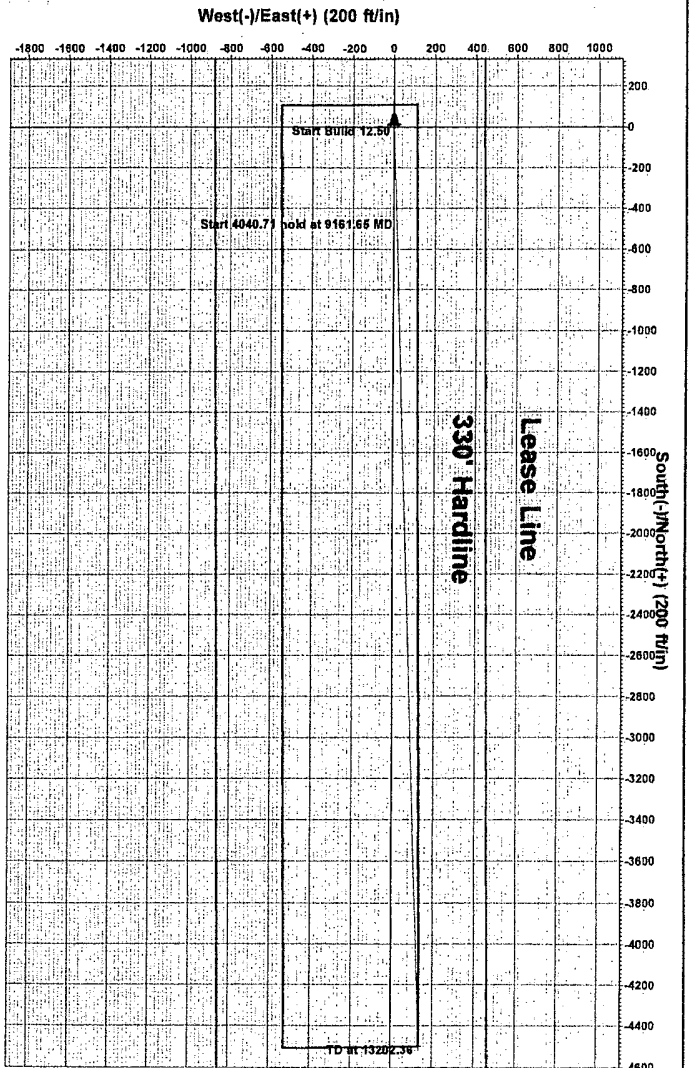
SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	8441.60	0.00	0.00	8441.60	0.00	0.00	0.00	0.00	0.00	
3	9161.65	90.00	178.28	8900.00	-458.19	13.76	12.50	178.28	458.40	
4	13202.36	90.00	178.28	8900.00	-4497.08	135.04	0.00	0.00	4499.11	PBHL(Dos#1)

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

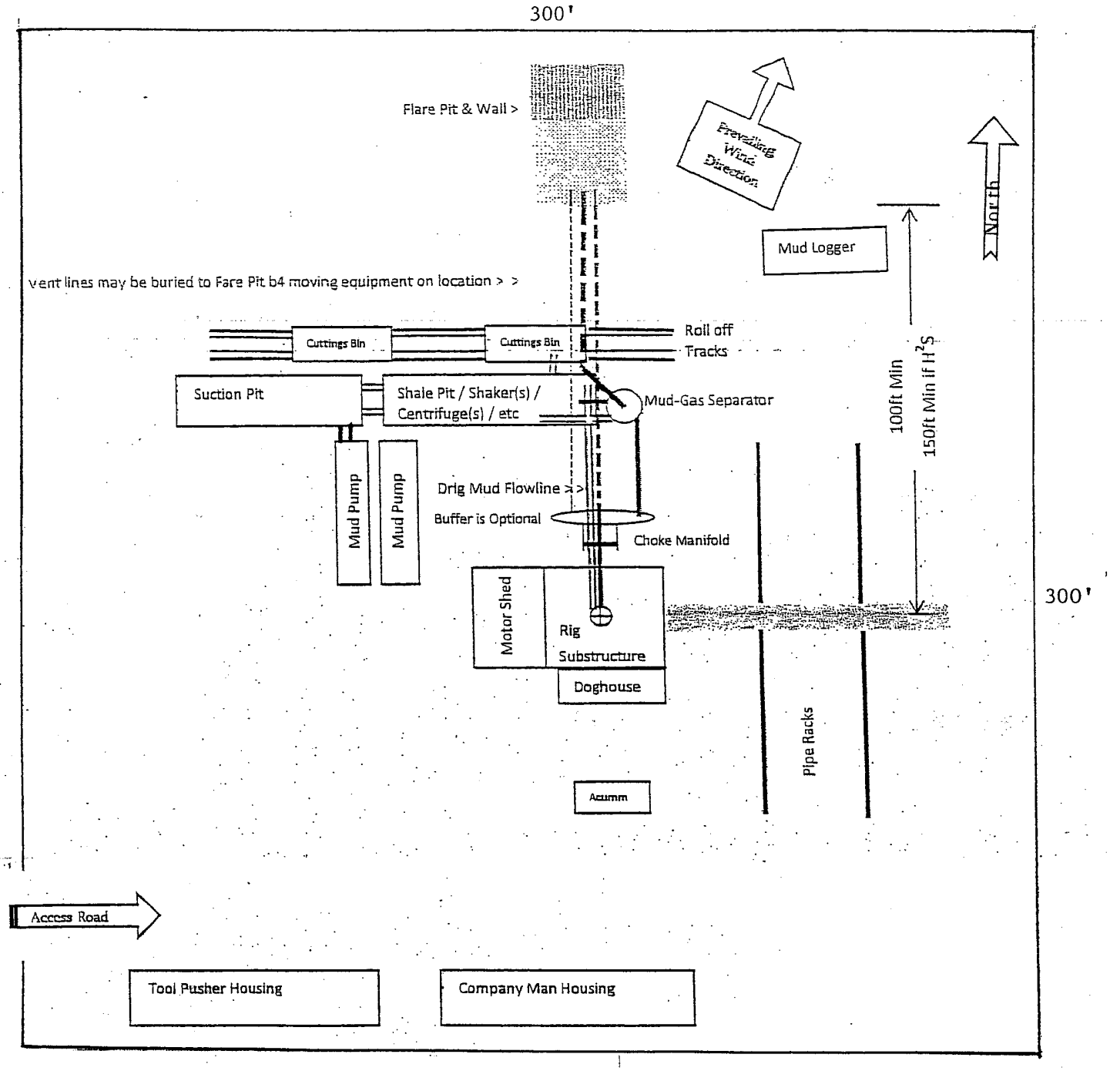
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PBHL(Dos#1)	8900.00	-4497.09	134.63	430840.313	709995.552	Point





Plan: Plan #1 (#1H/OH)
Created By: Nate Bingham Date: 15:24, October 28 2010
Checked: _____ Date: _____

(SOIL PILE)

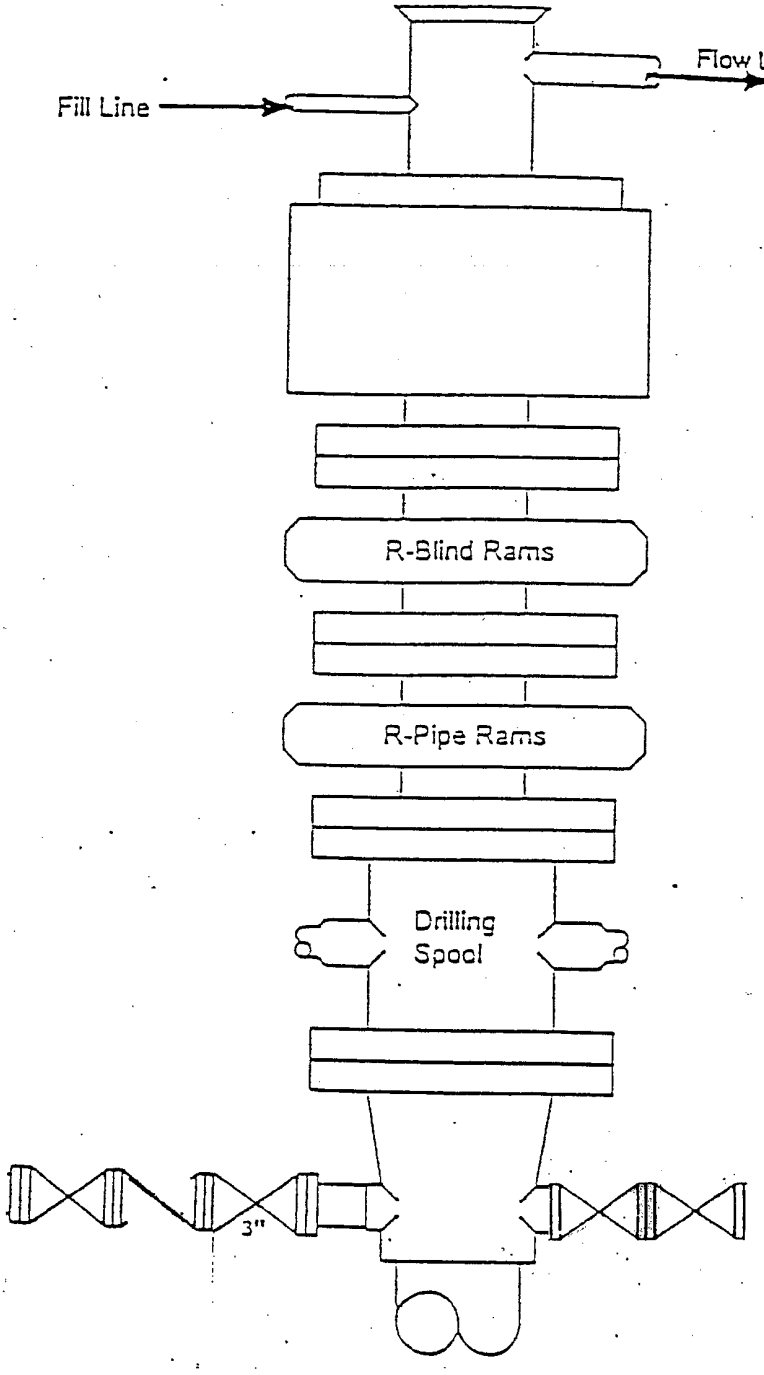


Generic Drill Site Layout

Preplanning reasonable spacing accommodations for a useable "Closed Loop" drillsite layout is challenging. Particular site specific conflicts need to be resolved. This generic APD plat was prepared to demonstrate several necessary elements. The plat should include: a north arrow, prevailing wind direction, spacing access for truck removal of cutting bins, flare pit location, and piping provision to vent all combustible gas to the flare pit. Include the choke manifold and mud-gas separator location and their connection routing.

EXHIBIT "D"
RIG LAYOUT PLAT

OGX RESOURCES, LLC.
DOS XX "27" FEDERAL COM. #1H
UNIT "A" SECTION 27
T24S-R32E LEA CO. NM



Type 900 Series
3000 psi WP

13 5/8" required

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

OGX RESOURCES, LLC.
DOS XX "27" FEDERAL COM. #1H
UNIT "A" SECTION 27
T24S-R32E LEA CO. NM

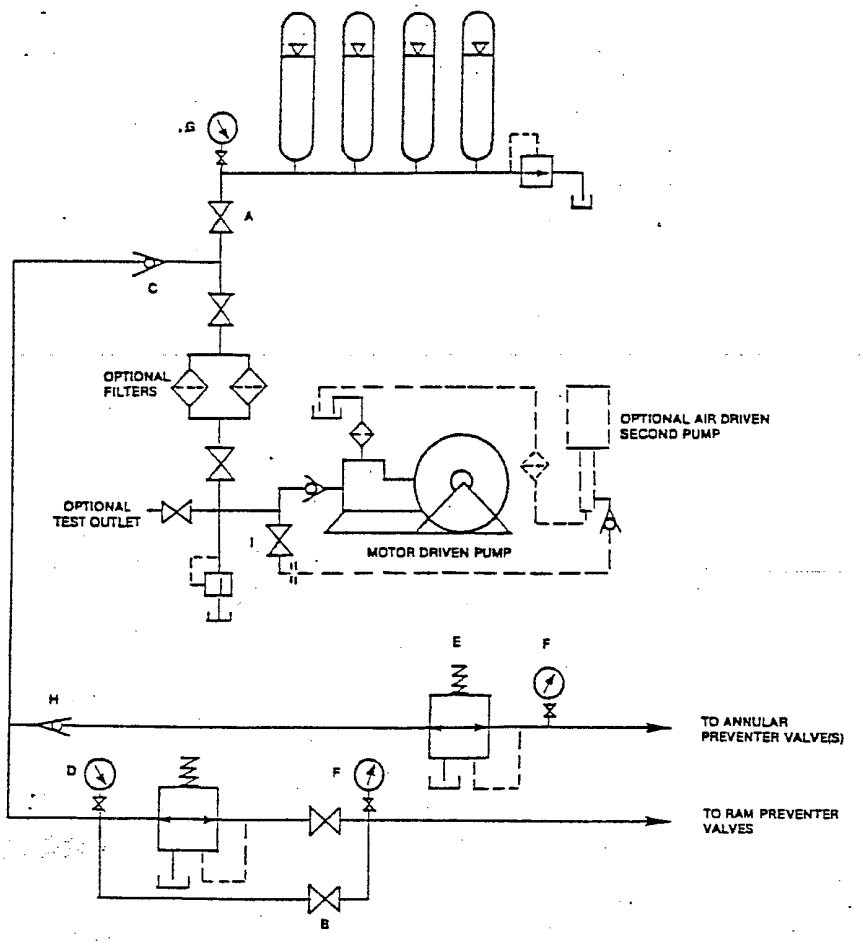


FIGURE K6-1. The schematic sketch of an accumulator system shows required and optional components.

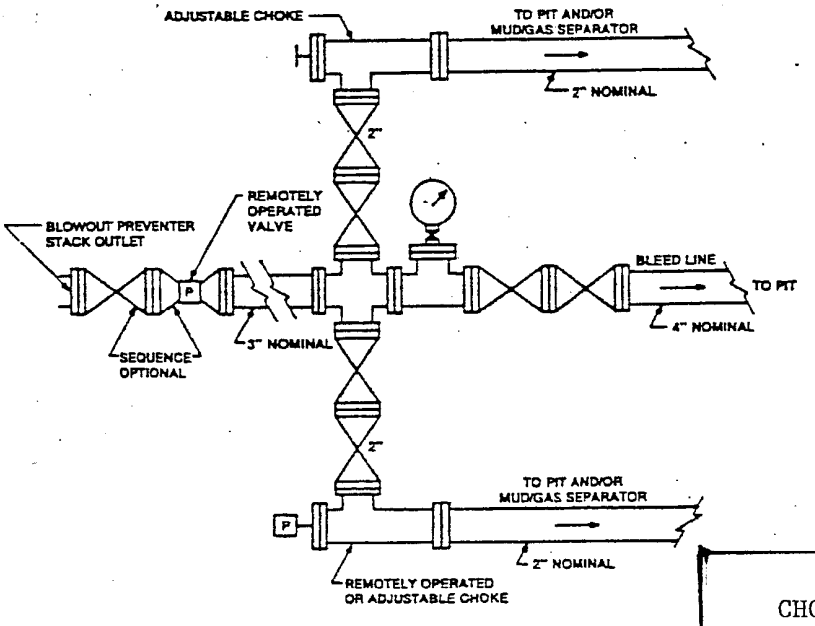
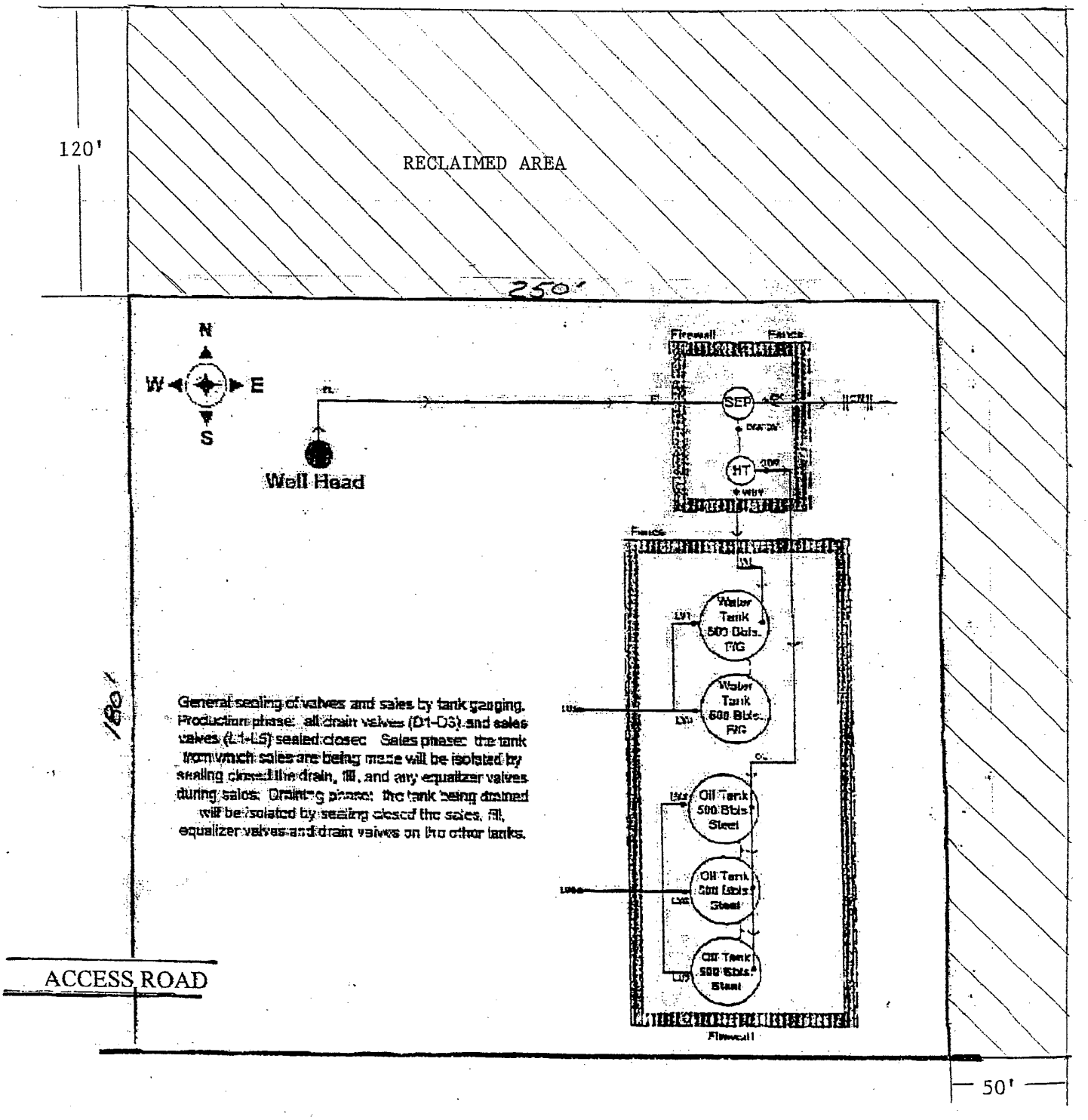


FIGURE K4-2. Typical choke manifold assembly for 5M rated working pressure service — surface installation.

EXHIBIT "E-1"
CHOKE MANIFOLD & CLOSING UNIT

OGX RESOURCES, LLC.
DOS XX "27" FEDERAL COM. #1H
UNIT "A" SECTION 27
T24S-R32E LEA CO. NM


120'
RECLAIMED AREA
250'
N
W
E
S
Well Head
Firewall
Fence
SEP
HT
Water Tank 500 Bbls. FIG
Water Tank 500 Bbls. FIG
Oil Tank 500 Bbls Steel
Oil Tank 500 Bbls Steel
Oil Tank 500 Bbls Steel
Firewall
General sealing of valves and sales by tank gauging. Production phase: all drain valves (D1-D3) and sales valves (L1-L3) sealed closed. Sales phase: the tank from which sales are being made will be isolated by sealing closed the drain, fill, and any equalizer valves during sales. Draining phase: the tank being drained will be isolated by sealing closed the sales, fill, equalizer valves and drain valves on the other tanks.
160'
ACCESS ROAD
50'