

30-015-39734

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 DepartmentForm C-102
Revised October 15, 2009Submit one copy to appropriate
District OfficeOIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-015-39734	Pool Code 51010	Pool Name Red Bluff; Bone Spring South
Property Code 38957	Property Name COTTONMOUTH "13" FEDERAL COM	Well Number 1H
GRID No. 217955	Operator Name OGX RESOURCES, LLC	Elevation 2920'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	13	26 S	28 E		810	SOUTH	2630	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
N	24	26 S	28 E		330	SOUTH	2310	WEST	EDDY

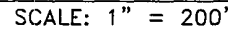
Dedicated Acres 160	Joint or Infill	Consolidation Code	Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

SURFACE LOCATION Lat - N 32°02'15.28" Long - W 104°02'27.13" NMSPC- N 377532.354 E 631960.934 (NAD-83) Lat - N 32°02'14.84" Long - W 104°02'25.38" NMSPC- N 377474.919 E 590775.757 (NAD-27) INTERMEDIATE POINT Lat - N 32°02'08.766" Long - W 104°02'30.969" NMSPC- N 376872.79 E 631632.36 (NAD-83) Lat - N 32°02'08.319" Long - W 104°02'29.223" NMSPC- N 376815.372 E 590447.177 (NAD-27) PROPOSED BOTTOM HOLE LOCATION Lat - N 32°01'18.72" Long - W 104°02'30.18" NMSPC- N 371815.877 E 631563.726 (NAD-83) Lat - N 32°01'18.28" Long - W 104°02'30.18" NMSPC- N 371758.561 E 590378.423 (NAD-27)		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: <i>Joe T. Janica</i> Date: 10/24/11 Printed Name: Joe T. Janica 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 supervision, and that the same is true and correct to the best of my belief. Date Surveyed: JULY 7, 2011 Signature & Seal of Professional Surveyor: <i>Gary L. Jones</i> W.O. No. 24904 Certificate No. Gary L. Jones 7977 BASIN SURVEYS
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EXHIBIT "A"

NEW MEXICO.



Survey Date: 07-07-2011	Sheet 1 of 1 Sheets
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COTTONMOUTH "13" FEDERAL COM #1H
Located 810' FSL and 2630' FWL
Section 13, Township 26 South, Range 28 East,
N.M.P.M., Eddy County, New Mexico.



focused on excellence
in the oilfield

P.O. Box 1786
1120 N. West County Rd.
Hobbs, New Mexico 88241
(575) 393-7316 - Office
(575) 392-2206 - Fax
basinsurveys.com

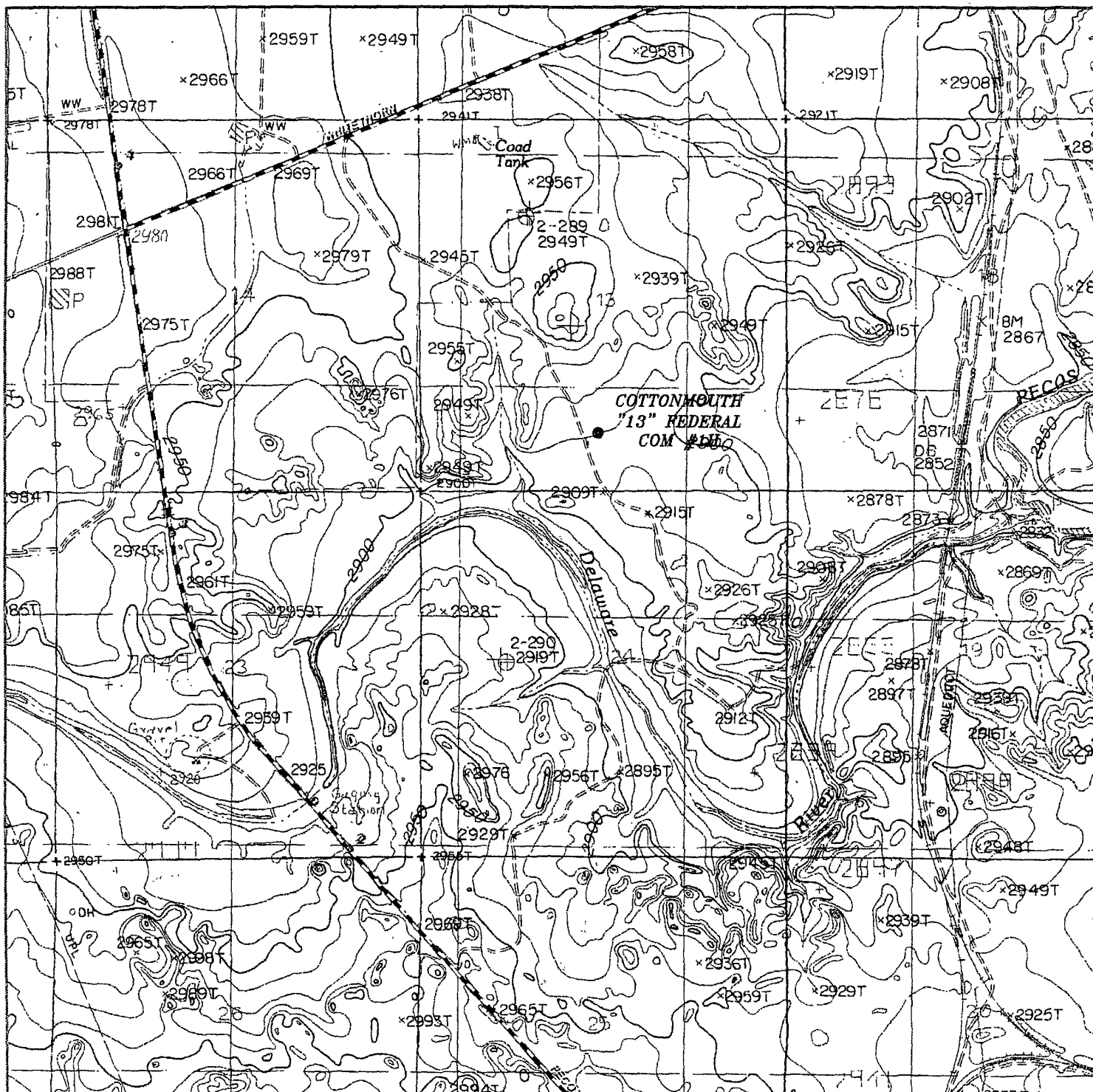
W.O. Number: JMS 24904

Scale: 1" = 2000'

YELLOW TINT - USA LAND
BLUE TINT - STATE LAND
NATURAL COLOR - FEE LAND



OGX
RESOURCES,
LLC



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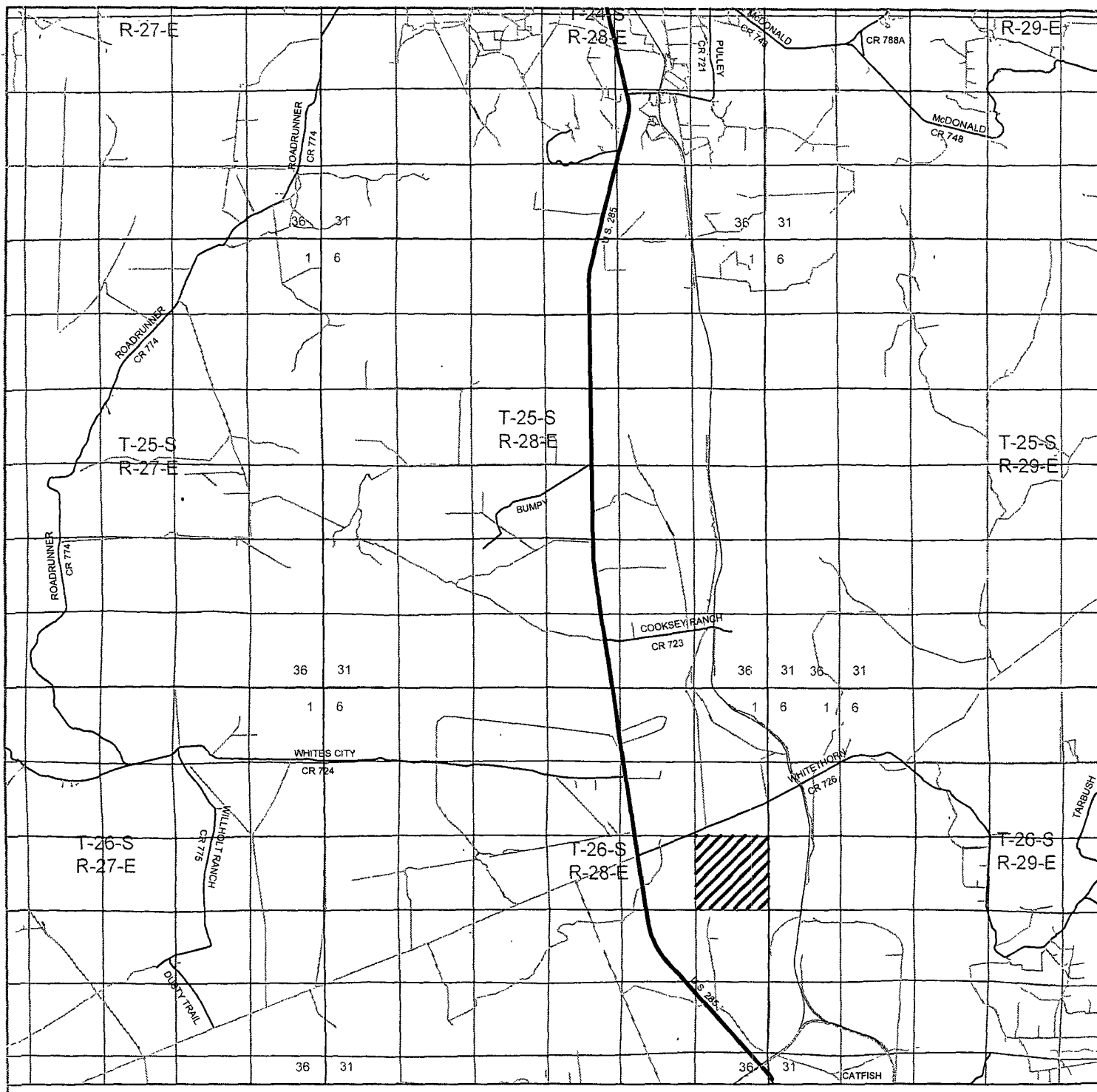
Survey Date: 07-07-2011

Scale: 1" = 2000'

Date: 07-15-2011



OGX
RESOURCES,
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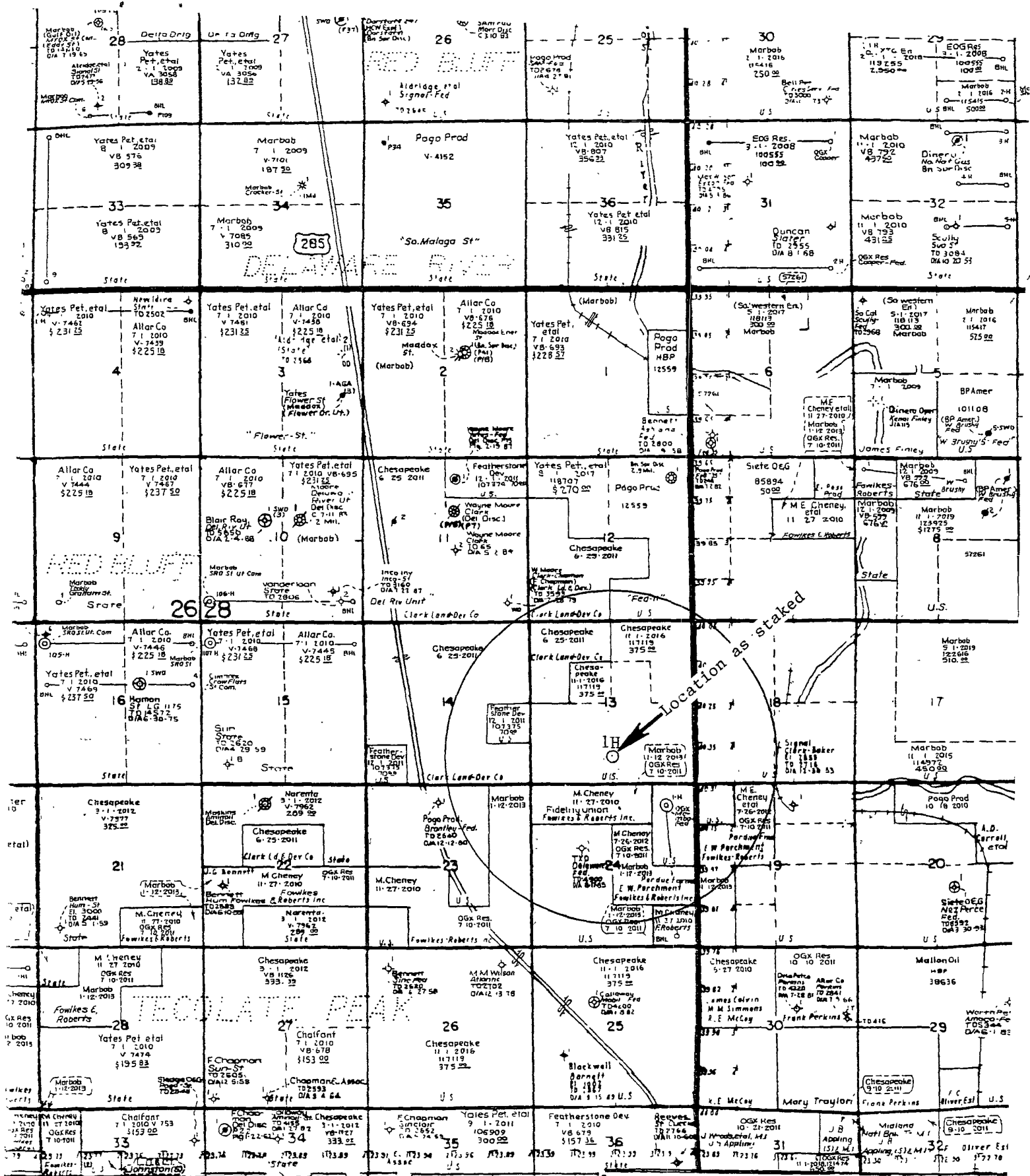
Survey Date: 07-07-2011

Scale: 1" = 2 Miles

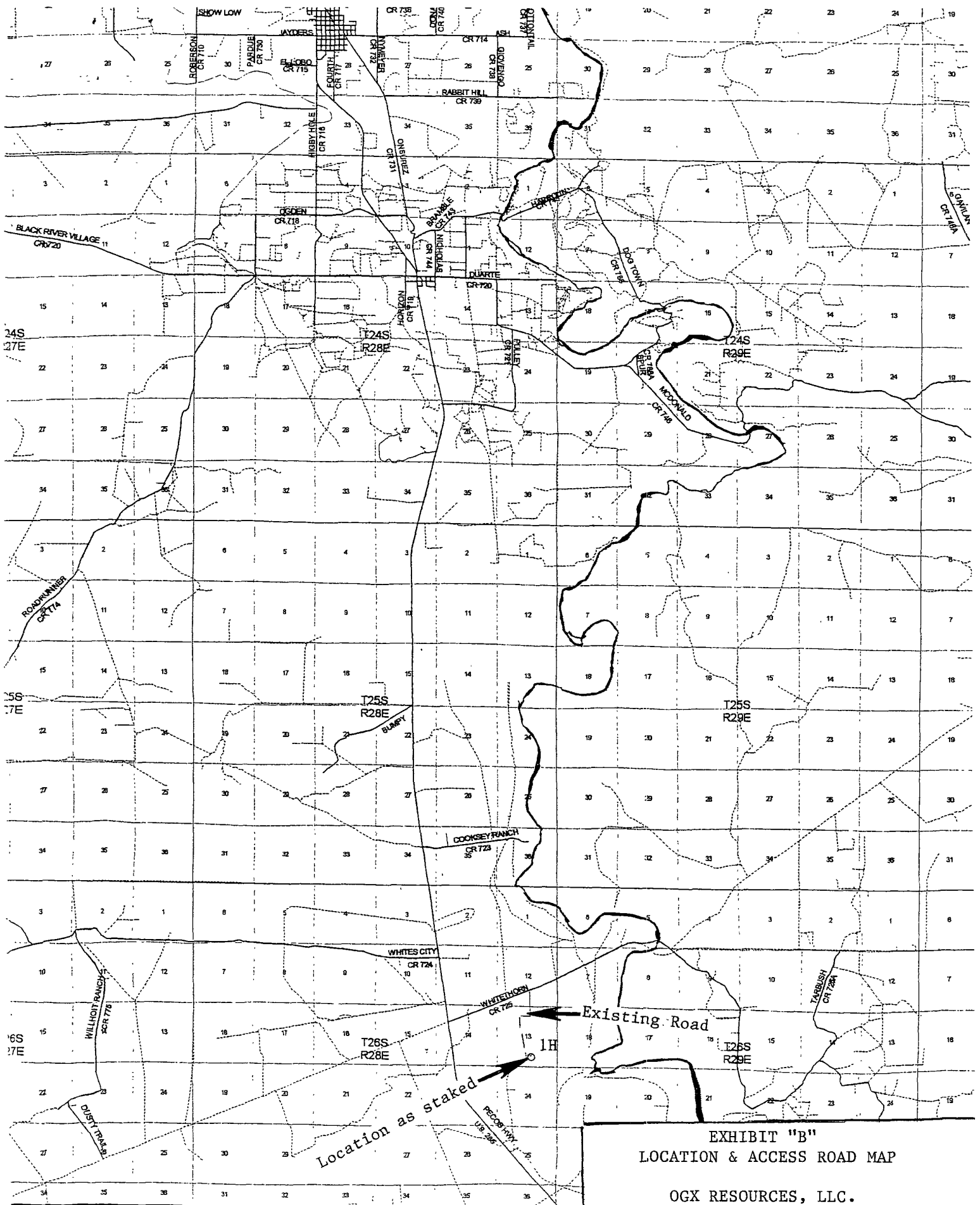
Date: 07-15-2011



OGX
RESOURCES,
LLC



CULBERSON



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to, no
al be held

EXHIBIT "B"
LOCATION & ACCESS ROAD MAP

OGX RESOURCES, LLC.
COTTONMOUTH "13" FEDERAL COM. #1H
UNIT "N" SECTION 13
T26S-R28E EDDY CO. NM

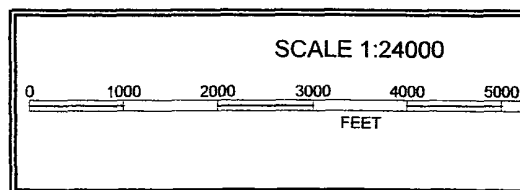
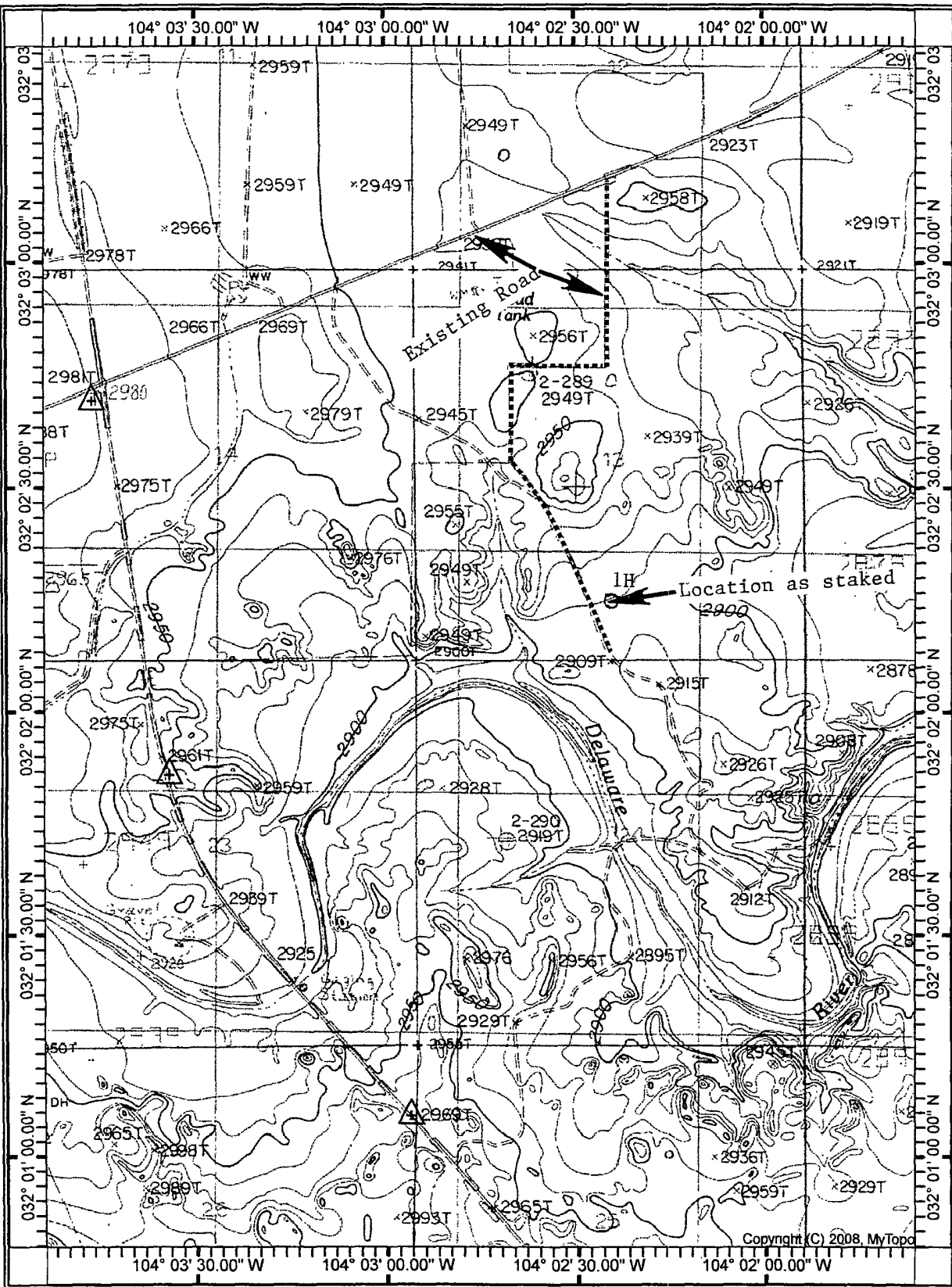


EXHIBIT "C"

TOPOGRAPHIC MAP SHOWING
ROADS & DIRECTIONS TO

OGX RESOURCES, LLC.
COTTONMOUTH "13" FEDERAL COM. #1H
UNIT "N" SECTION 13

**Cottonmouth 13 Fed Com No.1H
Delaware River South (Bone Spring)Field
Eddy County, New Mexico
Drilling Procedure
Sept 2011**

General Information

Lease:	Cottonmouth 13 Fed Com	AFE BCP:	\$
Well No.:	1H	AFE ACP:	
Field:	Delaware River Bone Spring Sth	AFE Total:	
County:	Eddy	AFE NO:	
State:	New Mexico	API No.:	30-015-XXXXX
Section:	13	Permit Date:	
Township:	26S	Permit TVD:	7,100'
Range:	28E	Proposed MD:	12,644'
Surface Section Ties:	810' FSL & 2630' FWL	Drilling Days:	25
BHL (target)	330' FSL & 2630' FWL Sec.24		
Ground Level:	2920'	KB:	2937'
Latitude:	32°02'15.28" N	Longitude	104°02'27.13" W

Well Objectives

The primary objective of this well is to evaluate potential within the Avalon Shale & drill horizontally without a pilot hole. This well will be logged 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

<u>Formation</u>	<u>Depth</u>	<u>Frm Pres</u>	<u>Remarks</u>
Basal Anhydrite	2420'	10 ppge	Drig fluid must be saturated salt water
Lamar	2600'	8.4 ppge	Base of Salt
Bell Canyon	2630'	8.4 ppge	Oil / Gas / Formation water /Poss.H ₂ S
Cherry Canyon	3500'	8.4 ppge	Oil / Gas / Formation water
Brushy Canyon	4700'	8.4 ppge	Oil / Gas / Formation water
Bone Spring	6350'	8.4 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 425' and circulating cement back to surface. Potash/ fresh water sands will be protected by setting 8 5/8" casing at 2625' and circulating cement to the surface. The hydrocarbon producing intervals will be isolated by setting 5 1/2" casing to total depth and circulating cement 300' above the base of the 8 5/8" casing.

CASING PROGRAM:

HOLE SIZE	DEPTH	OD Csg	WEIGHT	COLLAR	GRADE	NEW/USED
17 1/2"	0-425'	13 3/8"	48	STC	H40	New
11"	0-2625'	8 5/8"	32	STC	J55	New
7 7/8"	0-6400'	5 1/2"	17	LTC	P110	New
7 7/8"	6400-12644'	5 1/2"	17	BTC	P110	New

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 1/2" BTC will be run thru the curve & Lateral)

DEPTH	OD Csg	WEIGHT	factors: Burst / Collapse / Tension		
0-450'	13 3/8"	48	1.65	1.52	12+
0-2625'	8 5/8"	32	1.27	1.56	3.64
0-12644'	5 1/2"	17	1.87	1.76	2.27

** The Intermediate hole will never be evacuated**

(51/2 Burst & Collapse Calculated @ 7200' 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% CaCl₂ + 56.4% Fresh Water

Cement Properties	Lead	Tail
Est Volume (sacks)	225	200
Density (ppg)	12.80	14.80
Yield (ft ³ /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% CaCl₂ + 56.4% fresh water

Cement Properties	Lead	Tail
Est Volume (sacks)	300	200
Density (ppg)	12.7	14.8
Yield (ft ³ /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 caliper measurements.

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% CaCl₂ + 56.4% fresh water

Cement Properties

	<u>Lead</u>	<u>Tail</u>
Est Volume (sacks)	400	900
Density (ppg)	12.7	14.8
Yield (ft ³ /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/100ft ²)	Mud Type
0' – 425' Set 13-3/8" Casing	8.6 – 8.8	36 – 38	N/C	6 – 10	6 – 20	Spud Mud
425' – 2,625' Set 8-5/8" Casing	10.0 – 10.1	29 – 30	N/C	0 – 1	0 – 1	Brine
2,625' – 6400'	8.4 – 9.1	28 – 29	N/C	0 – 1	0 – 1	Fresh Water
6400 – 12,644' 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.

H₂S detection equipment will be in operation after drilling out the 13 3/8" casing shoe until the 5 1/2" 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.

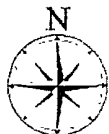
The horizontal lateral will be mud logged and GR via MWD.

Potential Hazards:

No abnormal pressures or temperatures are expected. There is no known presence of H₂S in this area. If H₂S 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 3048 psi. & BHT is 130° 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 25 days with an additional 20 days to complete the well and construct production facilities.



SECTION DETAILS

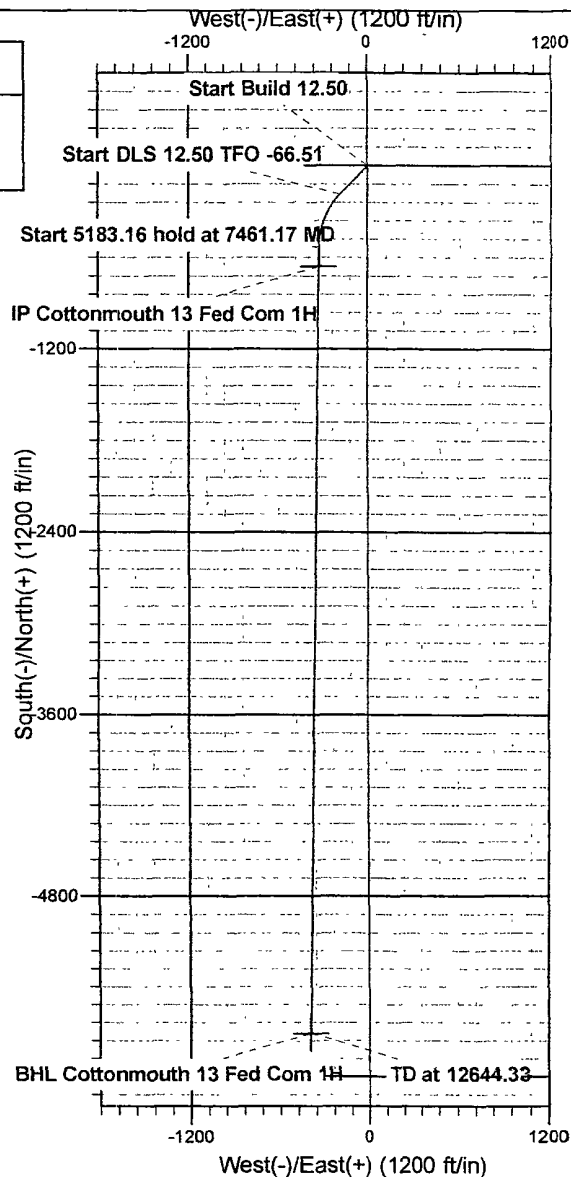
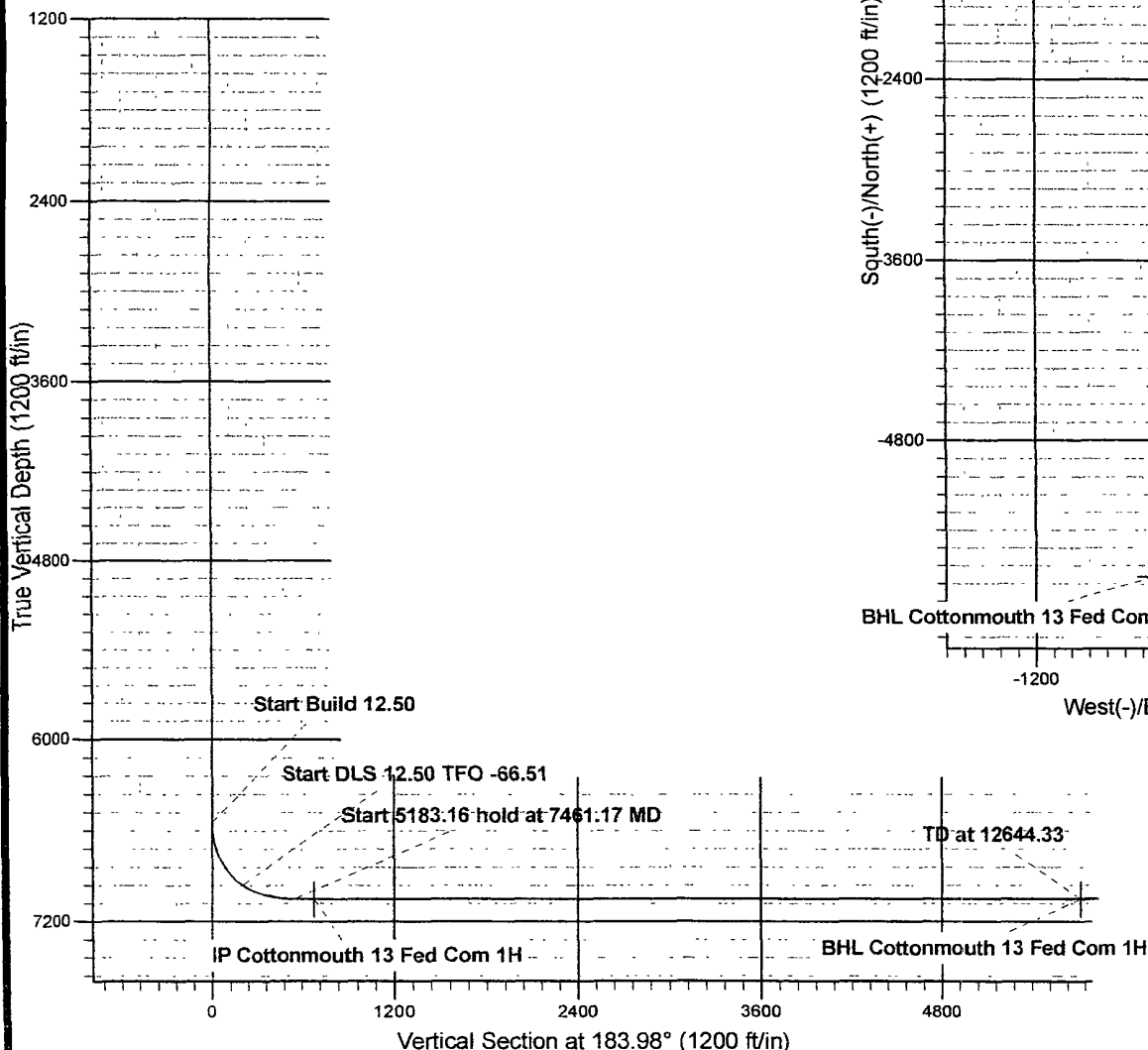
MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6545.31	0.00	0.00	6545.31	0.00	0.00	0.00	0.00	0.00	
7065.31	65.00	225.00	6960.73	-187.14	-187.14	12.50	225.00	199.66	
7461.17	90.00	180.79	7050.00	-533.71	-325.43	12.50	-66.51	554.99	BHL Cottonmouth 13 Fed Com 1H
12644.33	90.00	180.79	7050.00	-5716.37	-397.33	0.00	0.00	5730.16	BHL Cottonmouth 13 Fed Com 1H

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
BHL Cottonmouth 13 Fed Com 1H	7050.00	-5716.37	-397.33	Point
IP Cottonmouth 13 Fed Com 1H	7050.00	-659.55	-328.58	Point

WELL DETAILS: Cottonmouth 13 Fed Com 1H

Northing	Easting	Ground Level:	Latitude	Longitude
377474.92	590775.76	2920.00	32° 2' 14.84 N	104° 2' 25.38 W



OGX Resources

Eddy County, New Mexico (Nad27)

Cottonmouth 13 Federal Com

Cottonmouth 13 Fed Com 1H

Wellbore #1

Plan: Plan #1 091411

OGX Resources

14 September, 2011



Phoenix Technology Services
OGX Resources



Company: OGX Resources
Project: Eddy County, New Mexico (Nad27)
Site: Cottonmouth 13 Federal Com
Well: Cottonmouth 13 Fed Com 1H
Wellbore: Wellbore #1
Design: Plan #1 091411

Local Co-ordinate Reference: Well Cottonmouth 13 Fed Com 1H
TVD Reference: WELL @ 2938.00ft (Original Well Elev + 18' KB)
MD Reference: WELL @ 2938.00ft (Original Well Elev + 18' KB)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: GCR3

Project: Eddy County, New Mexico (Nad27)

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: Cottonmouth 13 Federal Com

Site Position:	Northings:	377,474.92 ft	Latitude:	32° 2' 14.84 N
From: Map	Easting:	590,775.76 ft	Longitude:	104° 2' 25.38 W
Position Uncertainty:	Slot Radius:	"	Grid Convergence:	0.16 °

Well: Cottonmouth 13 Fed Com 1H

Well Position	+N/-S	0.00 ft	Northings:	377,474.92 ft	Latitude:	32° 2' 14.84 N
	+E/-W	0.00 ft	Easting:	590,775.76 ft	Longitude:	104° 2' 25.38 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	2,920.00 ft

Wellbore: Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010_14	9/14/2011	7.75	59.92	48,429

Design: Plan #1 091411

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	183.98

Survey Tool Program Date 9/14/2011

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.00	12,644.02	Plan #1 091411 (Wellbore #1)	MWD	MWD - Standard

Phoenix Technology Services

OGX Resources



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 MD Reference: WELL @ 2938.00ft (Original Well Elev + 18' KB)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: GCR3

Planned Survey

MD (ft)	Inc (°)	Azi (azimuth) (°)	TVDSS (ft)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
0.00	0.00	0.00	-2,938.00	0.00	0.00	0.00	0.00	0.00	377,474.92	590,775.76
100.00	0.00	0.00	-2,838.00	100.00	0.00	0.00	0.00	0.00	377,474.92	590,775.76
200.00	0.00	0.00	-2,738.00	200.00	0.00	0.00	0.00	0.00	377,474.92	590,775.76
300.00	0.00	0.00	-2,638.00	300.00	0.00	0.00	0.00	0.00	377,474.92	590,775.76
400.00	0.00	0.00	-2,538.00	400.00	0.00	0.00	0.00	0.00	377,474.92	590,775.76
500.00	0.00	0.00	-2,438.00	500.00	0.00	0.00	0.00	0.00	377,474.92	590,775.76
600.00	0.00	0.00	-2,338.00	600.00	0.00	0.00	0.00	0.00	377,474.92	590,775.76
700.00	0.00	0.00	-2,238.00	700.00	0.00	0.00	0.00	0.00	377,474.92	590,775.76
800.00	0.00	0.00	-2,138.00	800.00	0.00	0.00	0.00	0.00	377,474.92	590,775.76
900.00	0.00	0.00	-2,038.00	900.00	0.00	0.00	0.00	0.00	377,474.92	590,775.76
1,000.00	0.00	0.00	-1,938.00	1,000.00	0.00	0.00	0.00	0.00	377,474.92	590,775.76
1,100.00	0.00	0.00	-1,838.00	1,100.00	0.00	0.00	0.00	0.00	377,474.92	590,775.76
1,200.00	0.00	0.00	-1,738.00	1,200.00	0.00	0.00	0.00	0.00	377,474.92	590,775.76
1,300.00	0.00	0.00	-1,638.00	1,300.00	0.00	0.00	0.00	0.00	377,474.92	590,775.76
1,400.00	0.00	0.00	-1,538.00	1,400.00	0.00	0.00	0.00	0.00	377,474.92	590,775.76
1,500.00	0.00	0.00	-1,438.00	1,500.00	0.00	0.00	0.00	0.00	377,474.92	590,775.76
1,600.00	0.00	0.00	-1,338.00	1,600.00	0.00	0.00	0.00	0.00	377,474.92	590,775.76
1,700.00	0.00	0.00	-1,238.00	1,700.00	0.00	0.00	0.00	0.00	377,474.92	590,775.76
1,800.00	0.00	0.00	-1,138.00	1,800.00	0.00	0.00	0.00	0.00	377,474.92	590,775.76
1,900.00	0.00	0.00	-1,038.00	1,900.00	0.00	0.00	0.00	0.00	377,474.92	590,775.76
2,000.00	0.00	0.00	-938.00	2,000.00	0.00	0.00	0.00	0.00	377,474.92	590,775.76
2,100.00	0.00	0.00	-838.00	2,100.00	0.00	0.00	0.00	0.00	377,474.92	590,775.76
2,200.00	0.00	0.00	-738.00	2,200.00	0.00	0.00	0.00	0.00	377,474.92	590,775.76
2,300.00	0.00	0.00	-638.00	2,300.00	0.00	0.00	0.00	0.00	377,474.92	590,775.76
2,400.00	0.00	0.00	-538.00	2,400.00	0.00	0.00	0.00	0.00	377,474.92	590,775.76
2,500.00	0.00	0.00	-438.00	2,500.00	0.00	0.00	0.00	0.00	377,474.92	590,775.76
2,600.00	0.00	0.00	-338.00	2,600.00	0.00	0.00	0.00	0.00	377,474.92	590,775.76

Phoenix Technology Services

OGX Resources



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Well: Cottonmouth 13 Fed Com 1H
Wellbore: Wellbore #1
Design: Plan #1 091411

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Database: GCR3

Planned Survey

MD (ft)	Inc (°)	Azi (azimuth) (°)	TVDSS (ft)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
2,700.00	0.00	0.00	-238.00	2,700.00	0.00	0.00	0.00	0.00	377,474.92	590,775.76
2,800.00	0.00	0.00	-138.00	2,800.00	0.00	0.00	0.00	0.00	377,474.92	590,775.76
2,900.00	0.00	0.00	-38.00	2,900.00	0.00	0.00	0.00	0.00	377,474.92	590,775.76
3,000.00	0.00	0.00	62.00	3,000.00	0.00	0.00	0.00	0.00	377,474.92	590,775.76
3,100.00	0.00	0.00	162.00	3,100.00	0.00	0.00	0.00	0.00	377,474.92	590,775.76
3,200.00	0.00	0.00	262.00	3,200.00	0.00	0.00	0.00	0.00	377,474.92	590,775.76
3,300.00	0.00	0.00	362.00	3,300.00	0.00	0.00	0.00	0.00	377,474.92	590,775.76
3,400.00	0.00	0.00	462.00	3,400.00	0.00	0.00	0.00	0.00	377,474.92	590,775.76
3,500.00	0.00	0.00	562.00	3,500.00	0.00	0.00	0.00	0.00	377,474.92	590,775.76
3,600.00	0.00	0.00	662.00	3,600.00	0.00	0.00	0.00	0.00	377,474.92	590,775.76
3,700.00	0.00	0.00	762.00	3,700.00	0.00	0.00	0.00	0.00	377,474.92	590,775.76
3,800.00	0.00	0.00	862.00	3,800.00	0.00	0.00	0.00	0.00	377,474.92	590,775.76
3,900.00	0.00	0.00	962.00	3,900.00	0.00	0.00	0.00	0.00	377,474.92	590,775.76
4,000.00	0.00	0.00	1,062.00	4,000.00	0.00	0.00	0.00	0.00	377,474.92	590,775.76
4,100.00	0.00	0.00	1,162.00	4,100.00	0.00	0.00	0.00	0.00	377,474.92	590,775.76
4,200.00	0.00	0.00	1,262.00	4,200.00	0.00	0.00	0.00	0.00	377,474.92	590,775.76
4,300.00	0.00	0.00	1,362.00	4,300.00	0.00	0.00	0.00	0.00	377,474.92	590,775.76
4,400.00	0.00	0.00	1,462.00	4,400.00	0.00	0.00	0.00	0.00	377,474.92	590,775.76
4,500.00	0.00	0.00	1,562.00	4,500.00	0.00	0.00	0.00	0.00	377,474.92	590,775.76
4,600.00	0.00	0.00	1,662.00	4,600.00	0.00	0.00	0.00	0.00	377,474.92	590,775.76
4,700.00	0.00	0.00	1,762.00	4,700.00	0.00	0.00	0.00	0.00	377,474.92	590,775.76
4,800.00	0.00	0.00	1,862.00	4,800.00	0.00	0.00	0.00	0.00	377,474.92	590,775.76
4,900.00	0.00	0.00	1,962.00	4,900.00	0.00	0.00	0.00	0.00	377,474.92	590,775.76
5,000.00	0.00	0.00	2,062.00	5,000.00	0.00	0.00	0.00	0.00	377,474.92	590,775.76
5,100.00	0.00	0.00	2,162.00	5,100.00	0.00	0.00	0.00	0.00	377,474.92	590,775.76
5,200.00	0.00	0.00	2,262.00	5,200.00	0.00	0.00	0.00	0.00	377,474.92	590,775.76
5,300.00	0.00	0.00	2,362.00	5,300.00	0.00	0.00	0.00	0.00	377,474.92	590,775.76

Phoenix Technology Services

OGX Resources



Company: OGX Resources
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 Well: Cottonmouth 13 Fed Com 1H
 Wellbore: Wellbore #1
 Design: Plan #1 091411

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 Survey Calculation Method: Minimum Curvature
 Database: GCR3

Planned Survey											
MD (ft)	Inc (°)	Azi (azimuth) (°)	TVDSS (ft)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)	
5,400.00	0.00	0.00	2,462.00	5,400.00	0.00	0.00	0.00	0.00	377,474.92	590,775.76	
5,500.00	0.00	0.00	2,562.00	5,500.00	0.00	0.00	0.00	0.00	377,474.92	590,775.76	
5,600.00	0.00	0.00	2,662.00	5,600.00	0.00	0.00	0.00	0.00	377,474.92	590,775.76	
5,700.00	0.00	0.00	2,762.00	5,700.00	0.00	0.00	0.00	0.00	377,474.92	590,775.76	
5,800.00	0.00	0.00	2,862.00	5,800.00	0.00	0.00	0.00	0.00	377,474.92	590,775.76	
5,900.00	0.00	0.00	2,962.00	5,900.00	0.00	0.00	0.00	0.00	377,474.92	590,775.76	
6,000.00	0.00	0.00	3,062.00	6,000.00	0.00	0.00	0.00	0.00	377,474.92	590,775.76	
6,100.00	0.00	0.00	3,162.00	6,100.00	0.00	0.00	0.00	0.00	377,474.92	590,775.76	
6,200.00	0.00	0.00	3,262.00	6,200.00	0.00	0.00	0.00	0.00	377,474.92	590,775.76	
6,300.00	0.00	0.00	3,362.00	6,300.00	0.00	0.00	0.00	0.00	377,474.92	590,775.76	
6,400.00	0.00	0.00	3,462.00	6,400.00	0.00	0.00	0.00	0.00	377,474.92	590,775.76	
6,500.00	0.00	0.00	3,562.00	6,500.00	0.00	0.00	0.00	0.00	377,474.92	590,775.76	
6,545.31	0.00	0.00	3,607.31	6,545.31	0.00	0.00	0.00	0.00	377,474.92	590,775.76	
Start Build 12.50											
6,600.00	6.84	225.00	3,661.87	6,599.87	-2.30	-2.30	2.46	12.50	377,472.61	590,773.45	
6,700.00	19.34	225.00	3,759.08	6,697.08	-18.28	-18.28	19.51	12.50	377,456.64	590,757.47	
6,800.00	31.84	225.00	3,849.10	6,787.10	-48.76	-48.76	52.02	12.50	377,426.16	590,727.00	
6,900.00	44.34	225.00	3,927.65	6,865.65	-92.29	-92.29	98.47	12.50	377,382.63	590,683.47	
7,000.00	56.84	225.00	3,991.01	6,929.01	-146.81	-146.81	156.64	12.50	377,328.11	590,628.94	
7,065.31	65.00	225.00	4,022.73	6,960.73	-187.14	-187.14	199.66	12.50	377,287.78	590,588.62	
Start DLS 12.50 TFO -66.51											
7,100.00	66.79	220.67	4,036.90	6,974.90	-210.35	-208.65	224.32	12.50	377,264.57	590,567.10	
7,200.00	72.55	208.83	4,071.74	7,009.74	-287.30	-261.82	304.76	12.50	377,187.62	590,513.94	
7,300.00	78.96	197.75	4,096.41	7,034.41	-376.18	-299.93	396.07	12.50	377,098.74	590,475.82	
7,400.00	85.76	187.16	4,109.73	7,047.73	-472.77	-321.20	493.90	12.50	377,002.15	590,454.56	
7,461.17	90.00	180.79	4,112.00	7,050.00	-533.71	-325.43	554.99	12.50	376,941.22	590,450.33	
Start 5183.16 hold at 7461.17 MD											

Phoenix Technology Services

OGX Resources



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Design: Plan #1 091411

Local Co-ordinate Reference: Well Cottonmouth 13 Fed Com 1H
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MD Reference: WELL @ 2938 00ft (Original Well Elev + 18' KB)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: GCR3

Planned Survey

MD (ft)	Inc (°)	Azi (azimuth) (°)	TVSS (ft)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
7,500.00	90.00	180.79	4,112.00	7,050.00	-572.53	-325.97	593.76	0.00	376,902.39	590,449.79
7,600.00	90.00	180.79	4,112.00	7,050.00	-672.52	-327.36	693.60	0.00	376,802.40	590,448.40
7,700.00	90.00	180.79	4,112.00	7,050.00	-772.51	-328.75	793.45	0.00	376,702.41	590,447.01
7,800.00	90.00	180.79	4,112.00	7,050.00	-872.50	-330.13	893.29	0.00	376,602.42	590,445.63
7,900.00	90.00	180.79	4,112.00	7,050.00	-972.49	-331.52	993.14	0.00	376,502.43	590,444.24
8,000.00	90.00	180.79	4,112.00	7,050.00	-1,072.48	-332.91	1,092.99	0.00	376,402.44	590,442.85
8,100.00	90.00	180.79	4,112.00	7,050.00	-1,172.47	-334.29	1,192.83	0.00	376,302.45	590,441.46
8,200.00	90.00	180.79	4,112.00	7,050.00	-1,272.46	-335.68	1,292.68	0.00	376,202.46	590,440.08
8,300.00	90.00	180.79	4,112.00	7,050.00	-1,372.46	-337.07	1,392.52	0.00	376,102.47	590,438.69
8,400.00	90.00	180.79	4,112.00	7,050.00	-1,472.45	-338.46	1,492.37	0.00	376,002.48	590,437.30
8,500.00	90.00	180.79	4,112.00	7,050.00	-1,572.44	-339.84	1,592.22	0.00	375,902.49	590,435.91
8,600.00	90.00	180.79	4,112.00	7,050.00	-1,672.43	-341.23	1,692.06	0.00	375,802.50	590,434.53
8,700.00	90.00	180.79	4,112.00	7,050.00	-1,772.42	-342.62	1,791.91	0.00	375,702.51	590,433.14
8,800.00	90.00	180.79	4,112.00	7,050.00	-1,872.41	-344.00	1,891.75	0.00	375,602.52	590,431.75
8,900.00	90.00	180.79	4,112.00	7,050.00	-1,972.40	-345.39	1,991.60	0.00	375,502.53	590,430.37
9,000.00	90.00	180.79	4,112.00	7,050.00	-2,072.39	-346.78	2,091.45	0.00	375,402.54	590,428.98
9,100.00	90.00	180.79	4,112.00	7,050.00	-2,172.38	-348.17	2,191.29	0.00	375,302.55	590,427.59
9,200.00	90.00	180.79	4,112.00	7,050.00	-2,272.37	-349.55	2,291.14	0.00	375,202.55	590,426.20
9,300.00	90.00	180.79	4,112.00	7,050.00	-2,372.36	-350.94	2,390.98	0.00	375,102.56	590,424.82
9,400.00	90.00	180.79	4,112.00	7,050.00	-2,472.35	-352.33	2,490.83	0.00	375,002.57	590,423.43
9,500.00	90.00	180.79	4,112.00	7,050.00	-2,572.34	-353.72	2,590.68	0.00	374,902.58	590,422.04
9,600.00	90.00	180.79	4,112.00	7,050.00	-2,672.33	-355.10	2,690.52	0.00	374,802.59	590,420.66
9,700.00	90.00	180.79	4,112.00	7,050.00	-2,772.32	-356.49	2,790.37	0.00	374,702.60	590,419.27
9,800.00	90.00	180.79	4,112.00	7,050.00	-2,872.31	-357.88	2,890.21	0.00	374,602.61	590,417.88
9,900.00	90.00	180.79	4,112.00	7,050.00	-2,972.30	-359.26	2,990.06	0.00	374,502.62	590,416.49
10,000.00	90.00	180.79	4,112.00	7,050.00	-3,072.29	-360.65	3,089.90	0.00	374,402.63	590,415.11
10,100.00	90.00	180.79	4,112.00	7,050.00	-3,172.28	-362.04	3,189.75	0.00	374,302.64	590,413.72

Phoenix Technology Services

OGX Resources



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 Wellbore: Wellbore #1
 Design: Plan #1 091411

Local Co-ordinate Reference: Well Cottonmouth 13 Fed Com 1H
 TVD Reference: WELL @ 2938.00ft (Original Well Elev + 18' KB)
 MD Reference: WELL @ 2938.00ft (Original Well Elev + 18' KB)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: GCR3

Planned Survey

MD (ft)	Inc (°)	Azi (azimuth) (°)	TVDSS (ft)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
10,200.00	90.00	180.79	4,112.00	7,050.00	-3,272.27	-363.43	3,289.60	0.00	374,202.65	590,412.33
10,300.00	90.00	180.79	4,112.00	7,050.00	-3,372.26	-364.81	3,389.44	0.00	374,102.66	590,410.94
10,400.00	90.00	180.79	4,112.00	7,050.00	-3,472.25	-366.20	3,489.29	0.00	374,002.67	590,409.56
10,500.00	90.00	180.79	4,112.00	7,050.00	-3,572.24	-367.59	3,589.13	0.00	373,902.68	590,408.17
10,600.00	90.00	180.79	4,112.00	7,050.00	-3,672.23	-368.98	3,688.98	0.00	373,802.69	590,406.78
10,700.00	90.00	180.79	4,112.00	7,050.00	-3,772.22	-370.36	3,788.83	0.00	373,702.70	590,405.40
10,800.00	90.00	180.79	4,112.00	7,050.00	-3,872.21	-371.75	3,888.67	0.00	373,602.71	590,404.01
10,900.00	90.00	180.79	4,112.00	7,050.00	-3,972.21	-373.14	3,988.52	0.00	373,502.72	590,402.62
11,000.00	90.00	180.79	4,112.00	7,050.00	-4,072.20	-374.52	4,088.36	0.00	373,402.73	590,401.23
11,100.00	90.00	180.79	4,112.00	7,050.00	-4,172.19	-375.91	4,188.21	0.00	373,302.74	590,399.85
11,200.00	90.00	180.79	4,112.00	7,050.00	-4,272.18	-377.30	4,288.06	0.00	373,202.75	590,398.46
11,300.00	90.00	180.79	4,112.00	7,050.00	-4,372.17	-378.69	4,387.90	0.00	373,102.76	590,397.07
11,400.00	90.00	180.79	4,112.00	7,050.00	-4,472.16	-380.07	4,487.75	0.00	373,002.77	590,395.68
11,500.00	90.00	180.79	4,112.00	7,050.00	-4,572.15	-381.46	4,587.59	0.00	372,902.78	590,394.30
11,600.00	90.00	180.79	4,112.00	7,050.00	-4,672.14	-382.85	4,687.44	0.00	372,802.79	590,392.91
11,700.00	90.00	180.79	4,112.00	7,050.00	-4,772.13	-384.23	4,787.28	0.00	372,702.80	590,391.52
11,800.00	90.00	180.79	4,112.00	7,050.00	-4,872.12	-385.62	4,887.13	0.00	372,602.81	590,390.14
11,900.00	90.00	180.79	4,112.00	7,050.00	-4,972.11	-387.01	4,986.98	0.00	372,502.82	590,388.75
12,000.00	90.00	180.79	4,112.00	7,050.00	-5,072.10	-388.40	5,086.82	0.00	372,402.83	590,387.36
12,100.00	90.00	180.79	4,112.00	7,050.00	-5,172.09	-389.78	5,186.67	0.00	372,302.84	590,385.97
12,200.00	90.00	180.79	4,112.00	7,050.00	-5,272.08	-391.17	5,286.51	0.00	372,202.85	590,384.59
12,300.00	90.00	180.79	4,112.00	7,050.00	-5,372.07	-392.56	5,386.36	0.00	372,102.86	590,383.20
12,400.00	90.00	180.79	4,112.00	7,050.00	-5,472.06	-393.95	5,486.21	0.00	372,002.87	590,381.81
12,500.00	90.00	180.79	4,112.00	7,050.00	-5,572.05	-395.33	5,586.05	0.00	371,902.88	590,380.43
12,600.00	90.00	180.79	4,112.00	7,050.00	-5,672.04	-396.72	5,685.90	0.00	371,802.89	590,379.04
12,644.33	90.00	180.79	4,112.00	7,050.00	-5,716.37	-397.33	5,730.16	0.00	371,758.56	590,378.42

TD at 12644.33

Phoenix Technology Services
OGX Resources

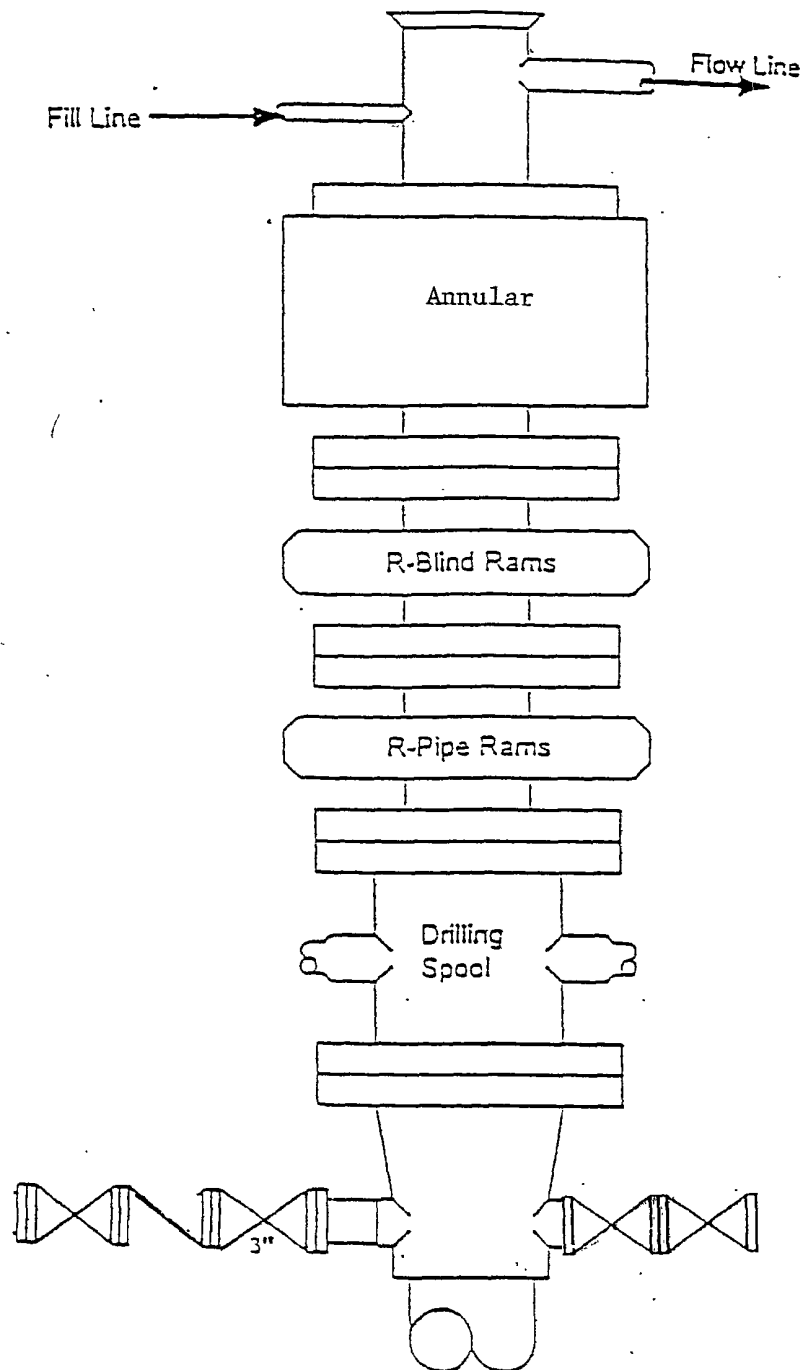


Company: OGX Resources
Project: Eddy County, New Mexico (Nad27)
Site: Cottonmouth 13 Federal Com
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Wellbore: Wellbore #1
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MD Reference: WELL @ 2938.00ft (Original Well Elev + 18' KB)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: GCR3

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
6,545.31	6,545.31	0.00	0.00	Start Build 12.50
7,065.31	6,960.73	-187.14	-187.14	Start DLS 12.50 TFO -66.51
7,461.17	7,050.00	-533.71	-325.43	Start 5183.16 hold at 7461.17 MD
12,644.33	7,050.00	-5,716.37	-397.33	TD at 12644.33

Checked By: _____ Approved By: _____ Date: _____



Type 900 Series
3000 psi WP

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

OGX RESOURCES, LLC.
COTTONMOUTH "13" FEDERAL COM. #1H
UNIT "N" SECTION 13
T26S-R28E EDDY CO. NM

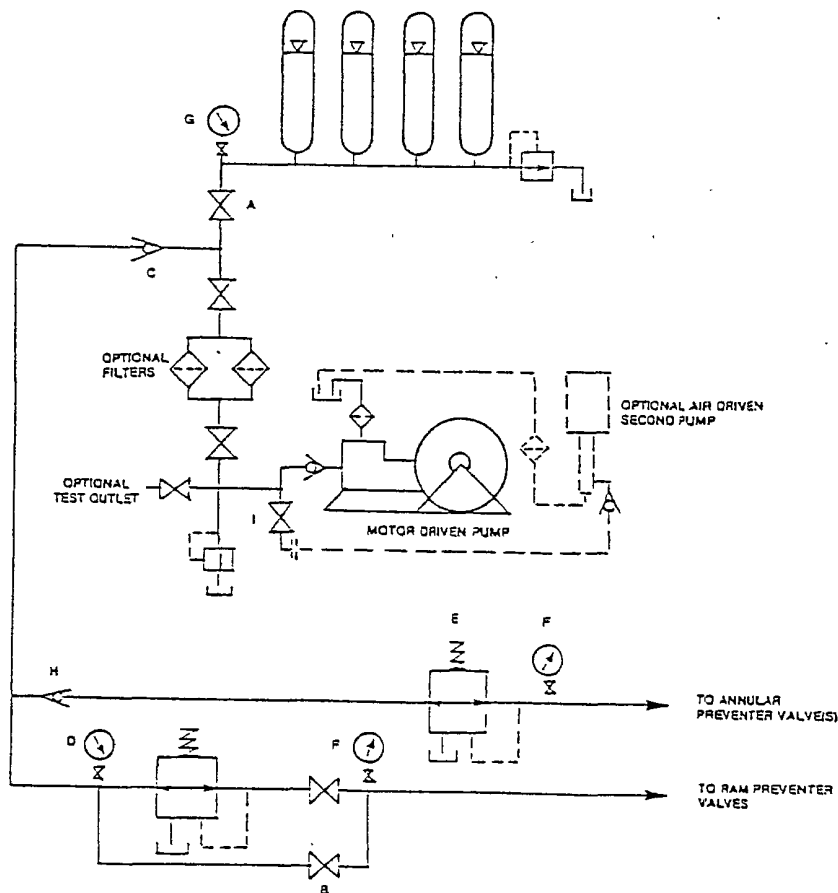


FIGURE K6-1. The schematic sketch of an accumulator system shows required and optional components.

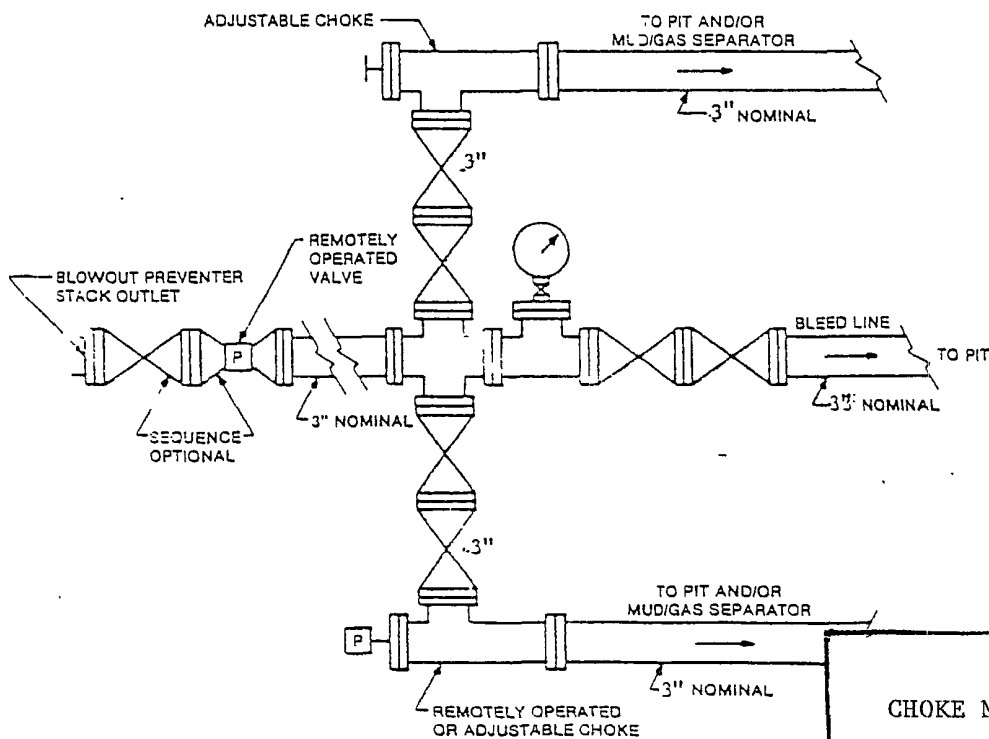
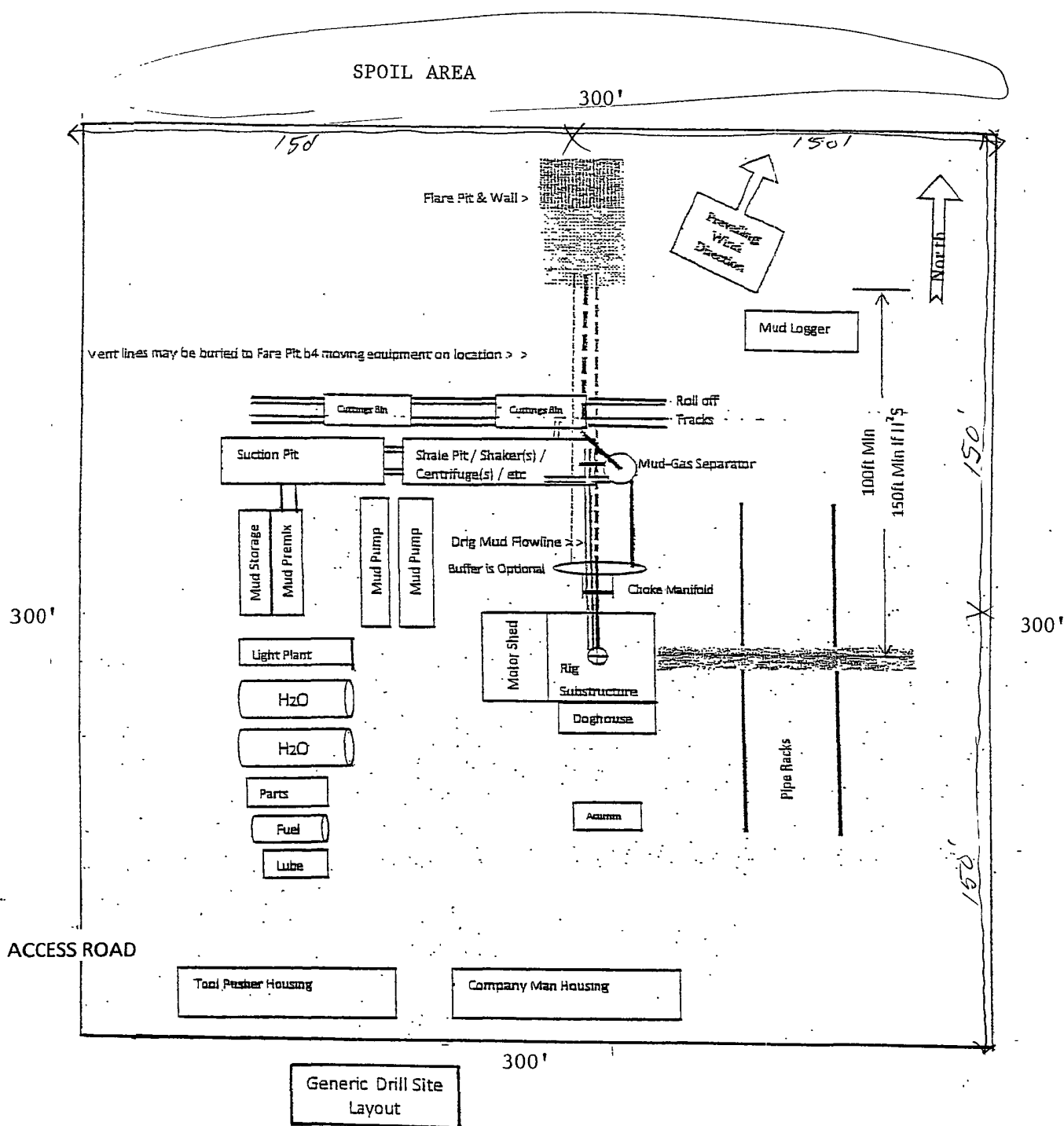


FIGURE K4-2. Typical choke manifold assembly for 5M rated working pressure service — surface installation.

EXHIBIT "E-1"
CHOKE MANIFOLD & CLOSING UNIT

OGX RESOURCES, LLC.
COTTONMOUTH "13" FEDERAL COM. #1H
UNIT "N" SECTION 13
T26S-R28E EDDY CO. NM



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 PLAT LAYOUT

OGX REAOURCES, LLC.
COTTONMOUTH "13" FEDERAL COM. #1H
UNIT "N" SECTION 13
T26S-R28E EDDY CO. NM