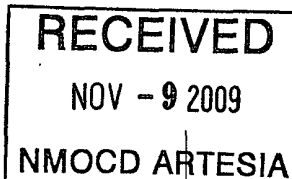


OCD-ARTESIA



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

ATS-09-650

LA

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: ☒ DRILL ☐ REENTER		5. Lease Serial No. NM 108953
1b. Type of Well: ☐ Oil Well ☒ Gas Well ☐ Other ☐ Single Zone ☐ Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator EOG Resources, Inc.		7. If Unit or CA Agreement, Name and No.
3a. Address P.O. Box 2267 Midland, TX 79702	3b. Phone No. (include area code) 432-686-3642	8. Lease Name and Well No. SKEENA 35 FED 4H
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface 410' FWL & 910' FSL (U/L M) At proposed prod zone 660' FEL & 760' FSL (U/L P)		9. API Well No. 30-015- 37387
14. Distance in miles and direction from nearest town or post office* Approx 9.0 miles WNW of Artesia, NM		10. Field and Pool, or Exploratory Cottonwood Creek Wolfcamp West
15. Distance from proposed* location to nearest property or lease line, ft (Also to nearest drig. unit line, if any) 410'		11. Sec., T R M. or Blk. and Survey or Area Section 35, T16S-R24E, N.M.P.M.
16. No. of acres in lease 1280		12. County or Parish Eddy
17. Spacing Unit dedicated to this well S/2 Sec 35, T16S-R24E, N.M.P.M.		13. State NM
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft 685'		19. Proposed Depth 4790'(TVD); 8839'(TMD)
20. BLM/BIA Bond No. on file NM2308		21. Elevations (Show whether DF, KDB, RT, GL, etc) GL 3693.5'
22. Approximate date work will start* 12/10/2009		23. Estimated duration 14

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must 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 must 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 BLM.

25. Signature <i>Donny G. Glanton</i>	Name (Printed/Typed) Donny G. Glanton	Date 09/23/2009
---------------------------------------	--	--------------------

Title
Sr. Lease Operations ROW Representative

Approved by (Signature) <i>/s/ Don Peterson</i>	Name (Printed/Typed)	Date NOV - 5 2009
---	----------------------	----------------------

Title
FOR 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)

Roswell Controlled Water Basin

MR

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS
AND SPECIAL STIPULATIONS
ATTACHED

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 & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised October 12, 2005
Submit to Appropriate District Office
State Lease- 4 Copies
Fee Lease- 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-37387	Pool Code 75260	Pool Name Cottonwood Creek Wolfcamp West ✓
Property Code 37409	Property Name SKEENA 35 FED.	Well Number 4H
OGRID No. 7377	Operator Name EOG RESOURCES, INC.	Elevation 3693.5'

Surface Location

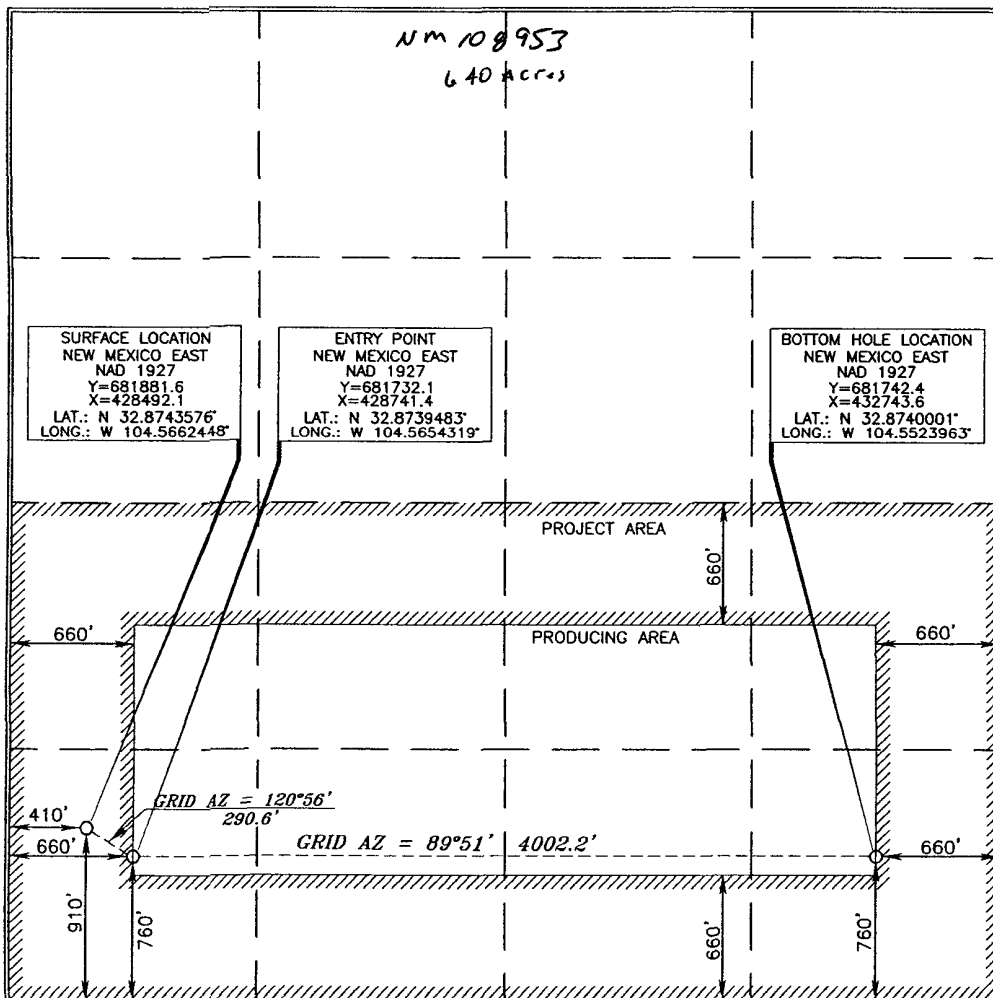
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	35	16 SOUTH	24 EAST, N.M.P.M.		910	SOUTH	410	WEST	EDDY

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
P	35	16 SOUTH	24 EAST, N.M.P.M.		760	SOUTH	660	EAST	EDDY

Dedicated Acres 320	Joint or Infill	Consolidation Code	Order No.
-------------------------------	-----------------	--------------------	-----------

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.

Donny G. Glanton 8/3/09
Signature Date
Donny G. Glanton
Printed Name

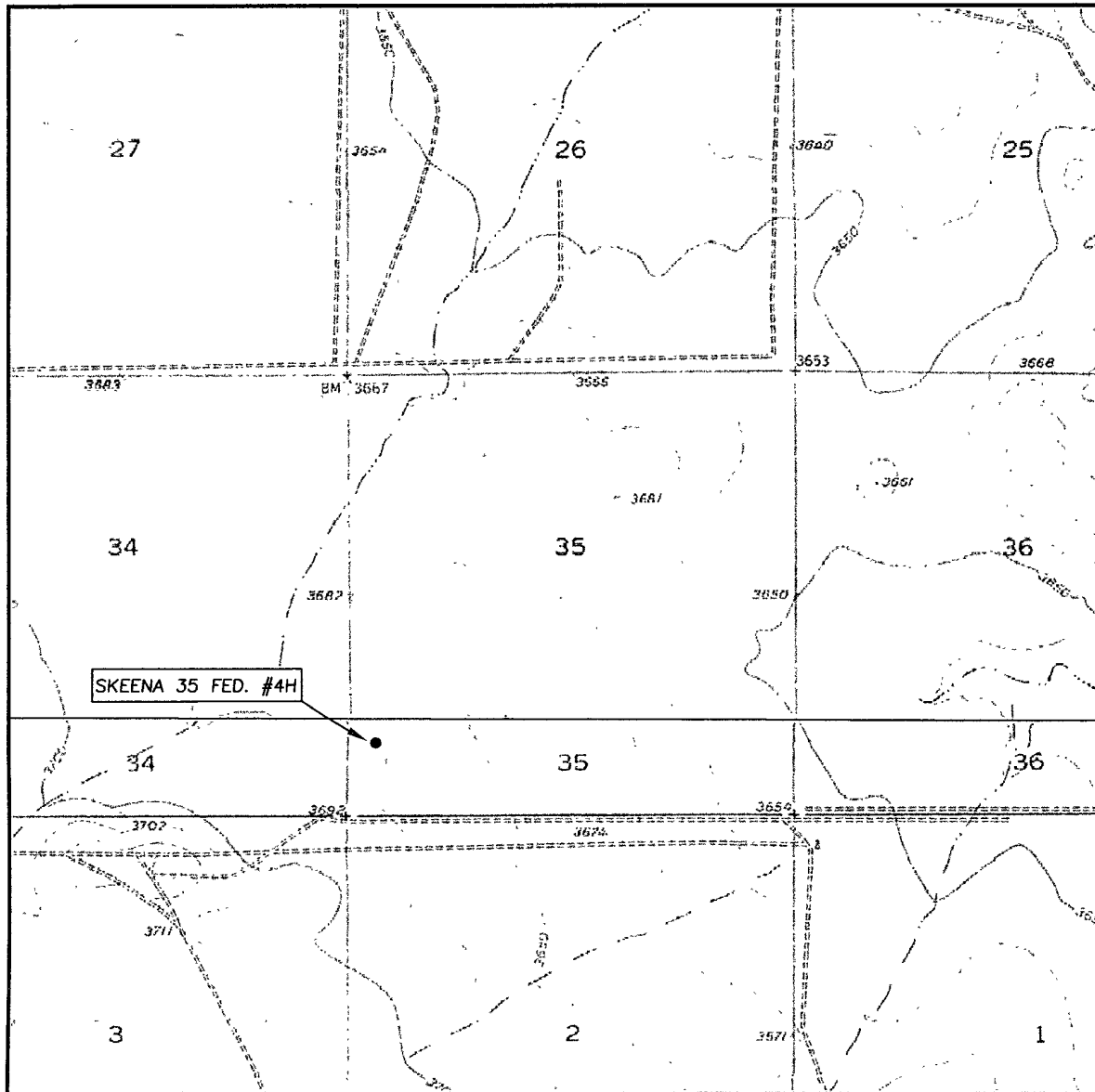
SURVEYOR CERTIFICATION

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

15079
JUNE 11, 2009
Date of Survey
Signature and Seal of Professional Surveyor
Terry J. Paul 6/26/2009
Certificate Number 15079

WO# 090611WL-d (KA)

LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL: 10'

SEC. 35 TWP. 16-S RGE. 24-E

SURVEY N.M.P.M.

COUNTY EDDY

DESCRIPTION 910' FSL & 410' FWL

ELEVATION 3693.5'

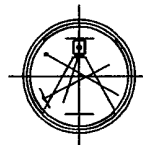
OPERATOR EOG RESOURCES INC.

LEASE SKEENA 35 FED. #4H

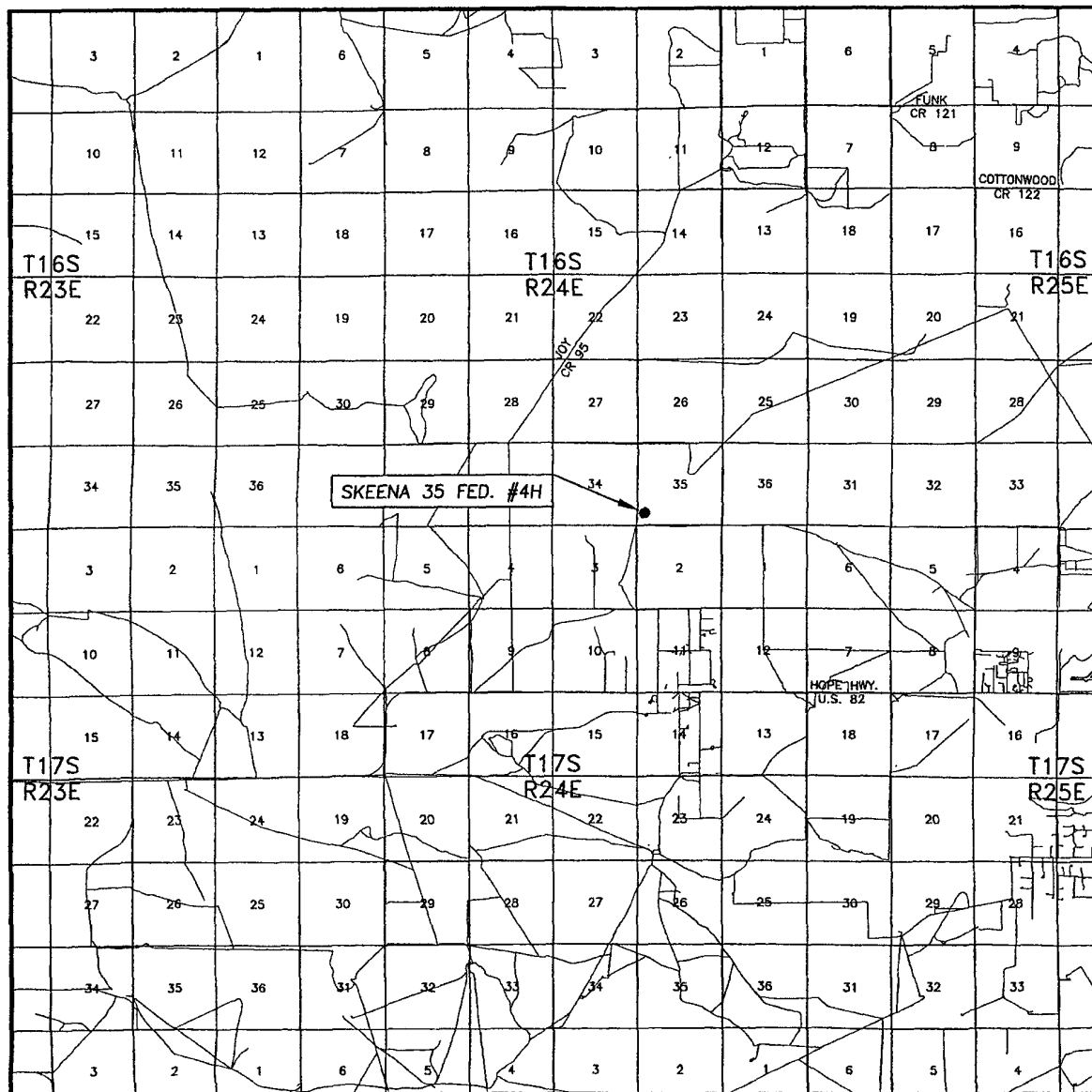
U.S.G.S. TOPOGRAPHIC MAP
HOPE SE, N.M.

Asel Surveying

P.O. BOX 393 - 310 W. TAYLOR
HOBBS, NEW MEXICO - 575-393-9146



VICINITY MAP

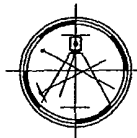


SEC. 35 TWP. 16-S RGE. 24-E
 SURVEY N.M.P.M.
 COUNTY EDDY
 DESCRIPTION 910' FSL & 410' FWL
 ELEVATION 3693.5'
 OPERATOR EOG RESOURCES INC.
 LEASE SKEENA 35 FED. #4H

SCALE: 1" = 2 MILES

Asel Surveying

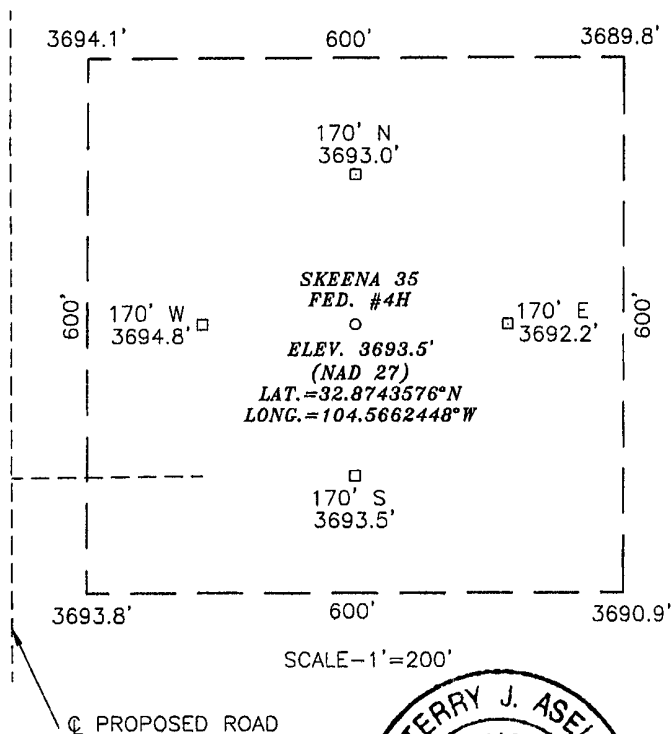
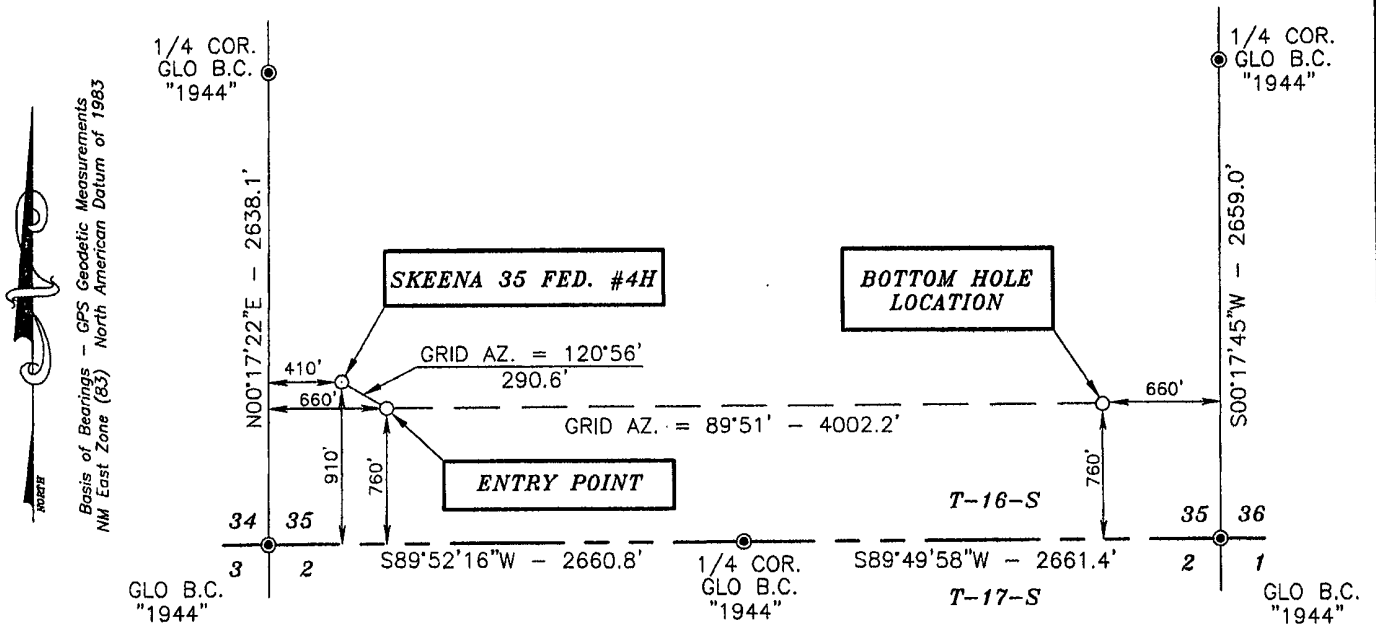
P.O. BOX 393 - 310 W. TAYLOR
 HOBBS, NEW MEXICO - 575-393-9146



DIRECTIONS BEGINNING IN ARTESIA AT THE INTERSECTION OF U.S. HWY. #285 AND U.S. HWY. #82, GO WEST ON U.S. HWY. #82 FOR 11.4 MILES, TURN RIGHT ON COUNTY ROAD #95 (JOY ROAD) AND GO NORTH FOR 3.0 MILES, TURN RIGHT AND GO NORTHEAST FOR 1.2 MILES, TURN RIGHT ON CALICHE ROAD AND GO EAST FOR 0.8 MILES, TURN RIGHT ON PROPOSED NEW ROAD AND GO SOUTH FOR 1.8 MILES, TURN LEFT AND GO EAST FOR 0.1 MILES TO LOCATION.

SECTION 35, TOWNSHIP 16 SOUTH, RANGE 24 EAST, N.M.P.M.,
EDDY COUNTY NEW MEXICO

Exhibit 2a



DRIVING DIRECTIONS:
BEGINNING IN ARTESIA AT THE
INTERSECTION OF U.S. HWY. #285
AND U.S. HWY. #82, GO WEST ON
U.S. HWY. #82 FOR 11.4 MILES,
TURN RIGHT ON COUNTY ROAD #95
(JOY ROAD) AND GO NORTH FOR 3.0
MILES, TURN RIGHT AND GO
NORTHEAST FOR 1.2 MILES, TURN
RIGHT ON CALICHE ROAD AND GO
EAST FOR 0.8 MILES, TURN RIGHT ON
PROPOSED NEW ROAD AND GO SOUTH
FOR 1.8 MILES, TURN LEFT AND GO
EAST FOR 0.1 MILES TO LOCATION.

SURVEYORS CERTIFICATE

I, TERRY J. ASEL, NEW MEXICO PROFESSIONAL SURVEYOR
NO. 15079, DO HEREBY CERTIFY THAT I CONDUCTED AND AM
RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS
TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND
BELIEF, AND MEETS THE "MINIMUM STANDARDS FOR
SURVEYING IN NEW MEXICO" AS ADOPTED BY THE NEW
MEXICO STATE BOARD OF REGISTRATION FOR
PROFESSIONAL ENGINEERS AND SURVEYORS.

Terry J. Asel 9/23/2009
Terry J. Asel N.M. R.P.S. No. 15079

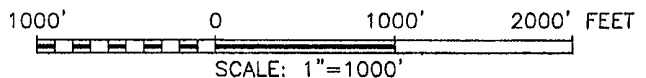
Asel Surveying

P.O. BOX 393 - 310 W. TAYLOR
HOBBBS, NEW MEXICO - 575-393-9146



LEGEND

● - DENOTES FOUND MONUMENT AS NOTED

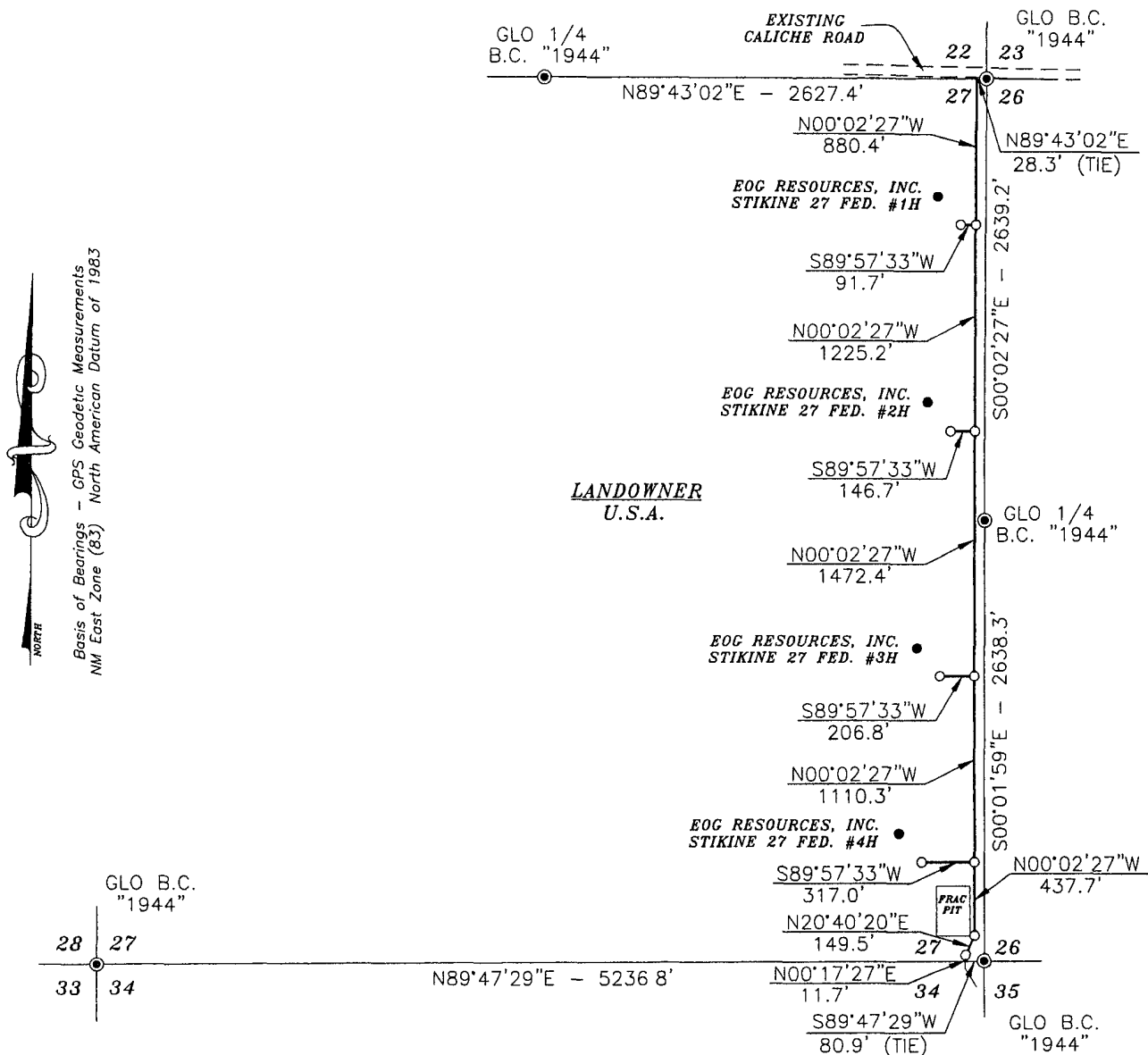


EOG RESOURCES, INC.

SKEENA 35 FED. #4H LOCATED AT
910' FSL & 410' FWL IN SECTION 35,
TOWNSHIP 16 SOUTH, RANGE 24 EAST,
N.M.P.M., EDDY COUNTY, NEW MEXICO

Survey Date: 06/11/09	Sheet 1 of 1 Sheets
W.O. Number: 090611WL-d (Rev. A)	Drawn By: KA Rev: A
Date: 09/23/09	090611WL-d Scale: 1"=1000'

Page 1 of 2



DESCRIPTION

A STRIP OF LAND 20.0 FEET WIDE AND 6049.4 FEET OR 1.146 MILES IN LENGTH CROSSING U.S.A. LAND IN SECTION 27, TOWNSHIP 16 SOUTH, RANGE 24 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO AND BEING 10.0 FEET LEFT AND 10.0 FEET RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY.



SURVEYORS CERTIFICATE

I, TERRY J. ASSEL, NEW MEXICO PROFESSIONAL SURVEYOR NO. 15079, DO HEREBY CERTIFY THAT I CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND MEETS THE "MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO" AS ADOPTED BY THE NEW MEXICO STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND SURVEYORS.

Terry J. Aser N.M. R.P.S. No. 15079

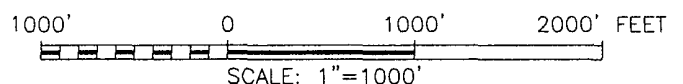
Asel Surveying



P.O. BOX 393 - 310 W TAYLOR
HOBBS, NEW MEXICO - 575-393-9146

LEGEND

◎ - DENOTES FOUND MONUMENT AS NOTED



EOG RESOURCES, INC.

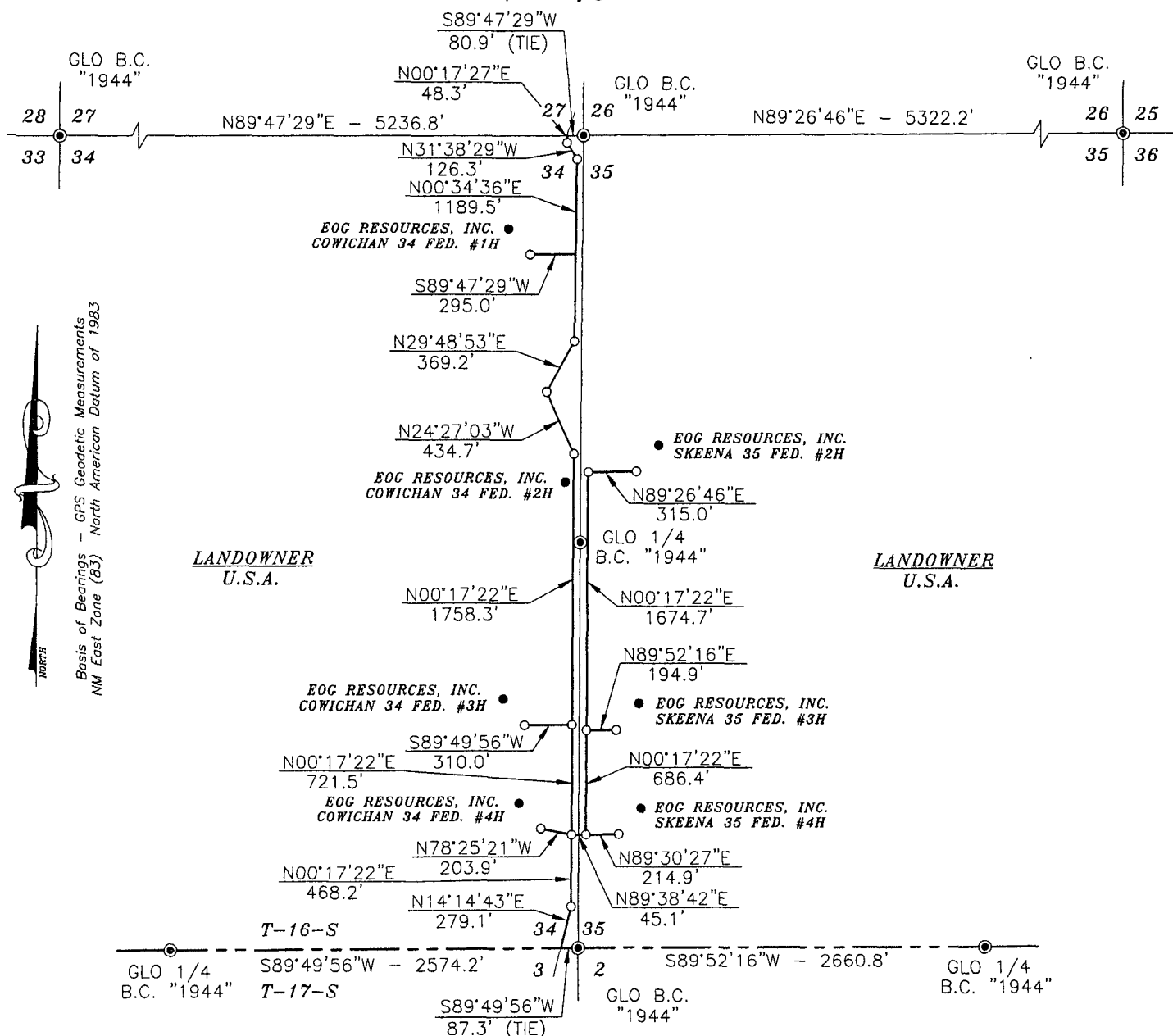
SURVEY FOR A ROAD EASEMENT
CROSSING U.S.A. LAND IN SECTION 27,
TOWNSHIP 16 SOUTH, RANGE 24 EAST,
N.M.P.M., EDDY COUNTY, NEW MEXICO

Survey Date: 07/10/09	Sheet 4 of 5 Sheets	
W.O. Number: 090811RD	Drawn By: KA	
Date: 08/12/09	090811RD.DWG	Scale: 1"=1000'

SECTIONS 34 & 35, TOWNSHIP 16 SOUTH, RANGE 24 EAST, N.M.P.M.,
EDDY COUNTY

Exhibit 26
Page 2 of 2

NEW MEXICO



DESCRIPTION

A STRIP OF LAND 20.0 FEET WIDE AND 9335.0 FEET OR 1.768 MILES IN LENGTH CROSSING U.S.A. LAND IN SECTIONS 34 & 35, TOWNSHIP 16 SOUTH, RANGE 24 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO AND BEING 10.0 FEET LEFT AND 10.0 FEET RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY.

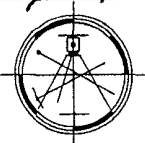


SURVEYORS CERTIFICATE

I, TERRY J. ASEL, NEW MEXICO PROFESSIONAL SURVEYOR NO. 15079, DO HEREBY CERTIFY THAT I CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND MEETS THE "MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO" AS ADOPTED BY THE NEW MEXICO STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND SURVEYORS.

Terry J. Asel 8/18/2009
Terry J. Asel N.M. R.P.S. No. 15079

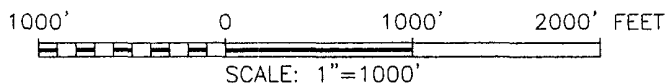
Asel Surveying



P.O. BOX 393 - 310 W. TAYLOR
HOBBS, NEW MEXICO - 575-393-9146

LEGEND

● - DENOTES FOUND MONUMENT AS NOTED

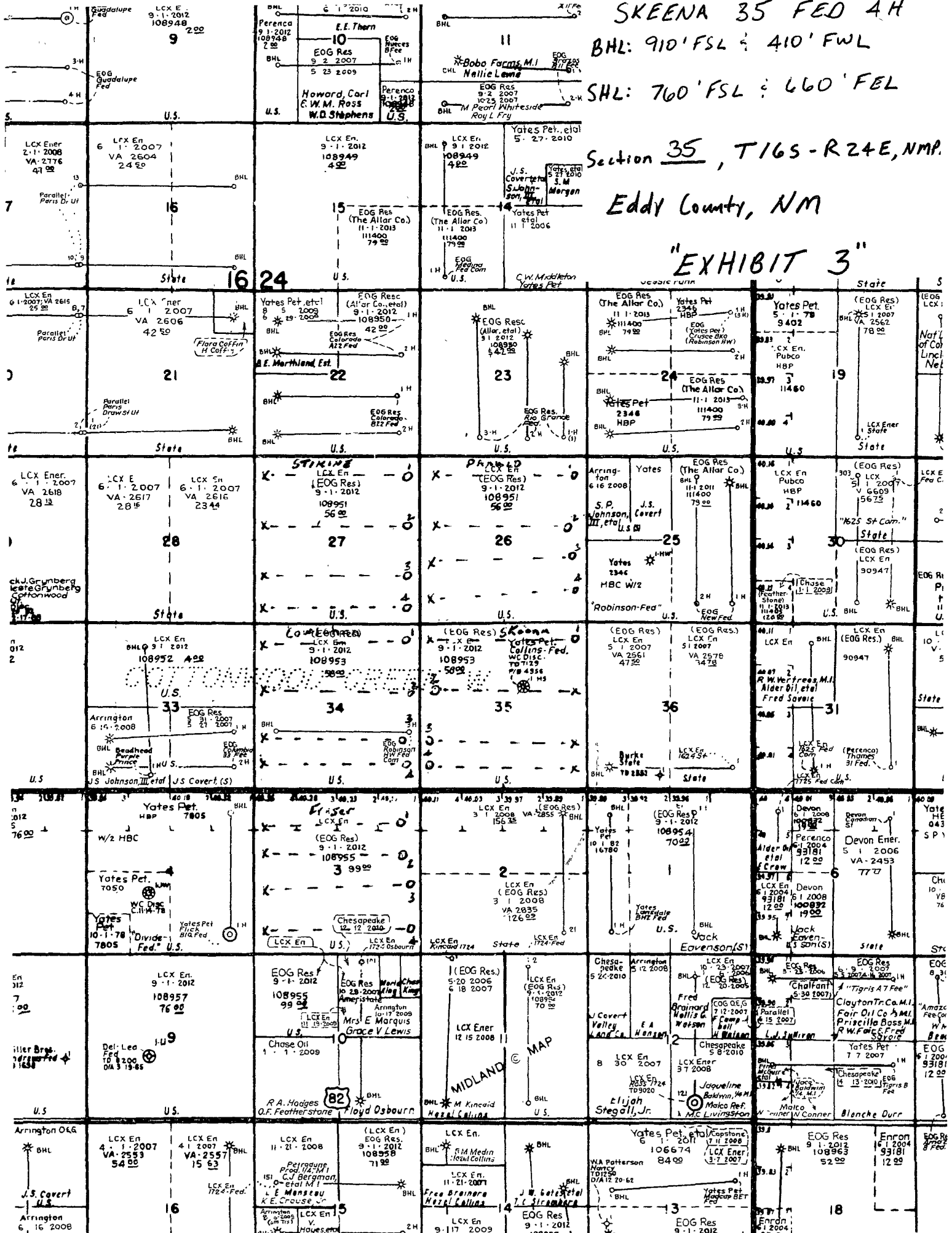


EOG RESOURCES, INC.

SURVEY FOR A ROAD EASEMENT
CROSSING U.S.A. LAND IN SECTIONS 34 & 35,
TOWNSHIP 16 SOUTH, RANGE 24 EAST,
N.M.P.M., EDDY COUNTY, NEW MEXICO

Survey Date: 07/10/09	Sheet 3 of 5 Sheets
W.O. Number: 090811RD	Drawn By: KA
Date: 08/12/09	090811RD.DWG Scale: 1"=1000'

"EXHIBIT 3"



Permit Information:

Well Name: Skeena 35 Fed #4H

Location:

SL 910' FSL & 410' FWL, Section 35, T-16-S, R-24-E, Eddy Co., N.M.

BHL 760' FSL & 660' FEL, Section 35, T-16-S, R-24-E, Eddy Co., N.M.

Casing Program:

Casing	Setting Depth	Hole Size	Casing Size	Casing Weight	Casing Grade	Desired TOC
Surface	1,200'	12-1/4"	8-5/8"	32#	J-55	Surface
Production	8,839'	7-7/8"	5 1/2"	17#	N-80	Surface

Cement Program:

Depth	No. Sacks	Slurries:
1,200'	345	Lead: 35:65 Poz C + 4% Bentonite+ 0.005 gps FP-6L + 0.005 pps Static Free + 5 pps LCM-1 + 5% NaCl + 5% MPA-5 + 0.8% SMS
	400	Tail: Class C + 0.005 gps FP-6L + 0.005 pps Static Free + 0.125 pps CelloFlake
8,839'	630	Lead: 50:50 Poz:Class C + 0.005 gps FP-6L + 10% Bentonite + 0.005 pps Static Free + 0.125 pps CelloFlake
	745	Tail: 50:50 Poz:Class C + 2% Bentonite + 0.005 gps FP-6L + 0.005 pps Static Free + 5% NaCl + 0.3% FL-2A + 0.2% CD-32 + 0.05% R-3

Mud Program:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 1,200'	Fresh - Gel	8.6-8.8	28-34	N/c
1,200' – 4,400'	Cut Brine	8.8-9.2	28-34	N/c
4,400' – 5,100'	Cut Brine	8.6-9.2	28-34	10-15
4,325' – 8,839'	Polymer (Lateral)	8.8-9.4	35-45	10-20

EOG RESOURCES, INC.

SKEENA 35 FED 4H

1. GEOLOGIC NAME OF SURFACE FORMATION:

Quaternary Alluvium 0-200

2. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

San Andres	450'
Glorieta	1,610'
Tubb	3,090'
Abo Shale	3,750'
Wolfcamp Pay	4,775'

3. ESTIMATED DEPTHS OF ANTICIPATED FRESH WATER, OIL OR GAS:

Quaternary Alluvium	0- 200'	Fresh Water
San Andres	450'	Oil
Glorieta	1,610'	Oil/Gas
Tubb	3,090'	Oil/Gas
Abo/Wolfcamp Pay	4,775'	Gas

No other Formations are expected to give up oil, gas or fresh water in measurable quantities. Surface fresh water sands will be protected by setting 8.625" casing at 1,200' and circulating cement back to surface.

4. CASING PROGRAM - NEW

Hole	Interval	OD Csg	Weight	Grade	Conn.	Collapse	Burst	Tension
						Design	Design	Design
12.250"	0-1,200'	8.625"	24#52	J-55	LT&C	4.76	2.62	7.40
7.875"	0-8.839'	5.5"	17#	N-80	LT&C	3.07	1.29	2.36

Cementing Program:

8.625" Surface Casing:

Cement to surface, Lead: 345 sx 35:65 Poz C + 0.005 pps Static Free + 5% NaCl + 5 pps LCM-1 + 0.005 gps FP-6L + 4% Bentonite + 5% MPA-5 + 0.8% SMS, 12.7 ppg, 2.02 yield
Tail: 400 sx Prem Plus C + 0.125 pps CelloFlake + 0.005 FP-6L + 0.005 pps Static Free, 14.8 ppg, 1.33 yield

EOG RESOURCES, INC.
SKEENA 35 FED 4H

5.50" Production Casing: Cement to surface, Lead: 630 sx 50:50 Poz C + 0.005 pps Static Free + 0.125 pps CelloFlake + 0.005 gps FP-6L + 10% Bentonite, 11.8 ppg, 2.29 yield
Tail: 745 sx 50:50 Poz C + 2% Bentonite + 0.005 gps FP-6L + 0.005 pps Static Free + 5% NaCl + 0.05% R-3 + 0.2% CD-32 + 0.3% FL-52A, 14.2 ppg, 1.30 yield

5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

(SEE EXHIBIT #1)

The blowout preventer equipment (BOP) shown in Exhibit #1 will consist of a double ram-type (5000 psi WP) preventer and an annular preventer (5000-psi WP). Units will be hydraulically operated and the ram-type will be equipped with blind rams on bottom and drill pipe rams on top. All BOP's and accessory equipment will be tested in accordance with Onshore Oil & Gas order No. 2, for a 3M system

Pipe rams will be operationally checked each 24-hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets.

See
COA } EOG Resources requests a variance to eliminate the stipulation requiring a BOPE test within 500' of the Wolfcamp. The Wolfcamp is not expected to be abnormally pressured (approx 1,800 lbs.) and the BOPE will be tested to the appropriate pressure requirements as per Onshore Order No. 2 prior to drilling out of the surface casing.

6. TYPES AND CHARACTERISTICS OF THE PROPOSED MUD SYSTEM:

The well will be drilled to TD with a combination of brine, cut brine, and polymer mud system. The applicable depths and properties of this system are as follows:

<u>Depth</u>	<u>Type</u>	<u>Wt</u> <u>(PPG)</u>	<u>Viscosity</u> <u>(sec)</u>	<u>Waterloss</u> <u>(cc)</u>
0-1,200'	Fresh - Gel	8.6-8.8	28-34	N/c
1,200'-4,400'	Cut Brine	8.8-9.2	28-34	N/c
4,400'-5,100'	Cut Brine	8.6-9.2	28-34	10-15
4,325'-8,839'	Polymer (Lateral)	8.8-9.4	35-45	10-20

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept at the wellsite at all times.

EOG RESOURCES, INC.
SKEENA 35 FED 4H

7. AUXILIARY WELL CONTROL AND MONITORING EQUIPMENT:

(A) A kelly cock will be kept in the drill string at all times.

(B) A full opening drill pipe-stabbing valve (inside BOP) with proper drill pipe connections will be on the rig floor at all times.

8. LOGGING, TESTING AND CORING PROGRAM: *see COA*

Open-hole logging is anticipated in the 7-7/8" production hole. The logging suites for this hole section are listed below:

Electric logging will consist of GR-Dual Laterlog and GR-Compensated Density-Neutron from +/-1,200' to TVD.

Possible sidewall cores based on shows.

Possible FMI.

9. ABNORMAL CONDITIONS, PRESSURES, TEMPERATURES AND POTENTIAL HAZARDS:

The estimated bottom hole temperature (BHT) at TD is 125 degrees F with an estimated maximum bottom-hole pressure (BHPP) at TD of 2000 psig. No hydrogen sulfide or other hazardous gases or fluids have been encountered, reported or are known to exist at this depth in this area. No major loss circulation zones have been reported in offsetting wells.

10. ANTICIPATED STARTING DATE AND DURATION OF OPERATIONS:

The drilling operation should be finished in approximately one month. If the well is productive, an additional 30-60 days will be required for completion and testing before a decision is made to install permanent facilities.

**Skeena 35 Fed #4H
Thames Field
Eddy County, New Mexico**

**910' FSL
410' FWL
Section 35
T-16-S, R-24-E**

Proposed Wellbore

API: 30-015-

**KB: 3,712.5'
GL: 3,693.5'**

Bit Size: 12-1/4"

8-5/8", 32#, J-55, LT&C 0' - 1200'
w/ 445 sx 35:65 Poz C + 4% Bentonite + 0.005
gps FP-6L + 0.005 pps Static Free + 5 pps LCM
1 + 5% NaCl + 5% MPA-5 + 0.8% SMS and
400 sx Class C + 0.005 gps FP-6L + 0.005 pps
Static Free + 0.125 pps CelloFlake

KOP: 4325'

Bit Size: 7-7/8"

Bit Size: 7-7/8"

5-1/2", 17# , N-80, LT&C @ 8,839'
w 630 sx 50:50 Poz C + 10% Bentonite + 0.005
gps FP-6L + 0.005 pps Static Free + 0.125 pps
CelloFlake
745 sx 50:50 Poz C + 2% Bentonite + 0.005 gps
FP-6L + 0.005 pps Static Free + 5% NaCl + 0.3%
FL-52A + 0.2% CD-32 + 0.05% R-3

TVD Vertical Well: 5100'

Wolfcamp Lateral: 8,839' MD, 4790' TVD

**BH Location: 760' FSL & 660' FEL
Section 35
T-16-S, R-24-E**



EOG Resources, Inc.

**Eddy County
Skeena 35 Fed
#4H
OH**

Plan: Plan #1

Pathfinder X & Y Planning Report

16 September, 2009

The word "PATHFINDER" in a large, bold, sans-serif font. The "PATH" portion is white with a black outline, while the "FINDER" portion is solid black. A thick black swoosh underline starts under the "F" and extends to the right.



Pathfinder Energy Services
Pathfinder X & Y Planning Report



Company: EOG Resources, Inc.
Project: Eddy County
Site: Skeena 35 Fed
Well: #4H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well #4H
TVD Reference: WELL @ 3712.50ft (Original Well Elev)
MD Reference: WELL @ 3712.50ft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Midland Database

Project Eddy 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 Skeena 35 Fed

Site Position:	From: Map	Northing:	681,881.600 ft	Latitude:	32° 52' 27.688 N
		Easting:	428,492.100 ft	Longitude:	104° 33' 58.482 W
Position Uncertainty:	0.00 ft	Slot Radius:	"	Grid Convergence:	-0 13 °

Well #4H

Well Position	+N/-S	0.00 ft	Northing:	681,881.600 ft	Latitude:	32° 52' 27.688 N
	+E/-W	0.00 ft	Easting:	428,492.100 ft	Longitude:	104° 33' 58.482 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	3,693.50 ft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	09/16/2009	8.29	60.67	49,095

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	91.87

Survey Tool Program Date 09/16/2009

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.00	8,838.83	Plan #1 (OH)	MWD	MWD - Standard



Pathfinder Energy Services
Pathfinder X & Y Planning Report



Company: EOG Resources, Inc.
Project: Eddy County
Site: Skeena 35 Fed
Well: #4H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well #4H
TVD Reference: WELL @ 3712.50ft (Original Well Elev)
MD Reference: WELL @ 3712.50ft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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	-3,712.50	0.00	0.00	0.00	0.00	681,881.60	428,492.10
100.00	0.00	0.00	100.00	-3,612.50	0.00	0.00	0.00	0.00	681,881.60	428,492.10
200.00	0.00	0.00	200.00	-3,512.50	0.00	0.00	0.00	0.00	681,881.60	428,492.10
300.00	0.00	0.00	300.00	-3,412.50	0.00	0.00	0.00	0.00	681,881.60	428,492.10
400.00	0.00	0.00	400.00	-3,312.50	0.00	0.00	0.00	0.00	681,881.60	428,492.10
500.00	0.00	0.00	500.00	-3,212.50	0.00	0.00	0.00	0.00	681,881.60	428,492.10
600.00	0.00	0.00	600.00	-3,112.50	0.00	0.00	0.00	0.00	681,881.60	428,492.10
700.00	0.00	0.00	700.00	-3,012.50	0.00	0.00	0.00	0.00	681,881.60	428,492.10
800.00	0.00	0.00	800.00	-2,912.50	0.00	0.00	0.00	0.00	681,881.60	428,492.10
900.00	0.00	0.00	900.00	-2,812.50	0.00	0.00	0.00	0.00	681,881.60	428,492.10
1,000.00	0.00	0.00	1,000.00	-2,712.50	0.00	0.00	0.00	0.00	681,881.60	428,492.10
1,100.00	0.00	0.00	1,100.00	-2,612.50	0.00	0.00	0.00	0.00	681,881.60	428,492.10
1,200.00	0.00	0.00	1,200.00	-2,512.50	0.00	0.00	0.00	0.00	681,881.60	428,492.10
1,300.00	0.00	0.00	1,300.00	-2,412.50	0.00	0.00	0.00	0.00	681,881.60	428,492.10
1,400.00	0.00	0.00	1,400.00	-2,312.50	0.00	0.00	0.00	0.00	681,881.60	428,492.10
1,500.00	0.00	0.00	1,500.00	-2,212.50	0.00	0.00	0.00	0.00	681,881.60	428,492.10
1,600.00	0.00	0.00	1,600.00	-2,112.50	0.00	0.00	0.00	0.00	681,881.60	428,492.10
1,700.00	0.00	0.00	1,700.00	-2,012.50	0.00	0.00	0.00	0.00	681,881.60	428,492.10
1,800.00	0.00	0.00	1,800.00	-1,912.50	0.00	0.00	0.00	0.00	681,881.60	428,492.10
1,900.00	0.00	0.00	1,900.00	-1,812.50	0.00	0.00	0.00	0.00	681,881.60	428,492.10
2,000.00	0.00	0.00	2,000.00	-1,712.50	0.00	0.00	0.00	0.00	681,881.60	428,492.10
2,100.00	0.00	0.00	2,100.00	-1,612.50	0.00	0.00	0.00	0.00	681,881.60	428,492.10
2,200.00	0.00	0.00	2,200.00	-1,512.50	0.00	0.00	0.00	0.00	681,881.60	428,492.10
2,300.00	0.00	0.00	2,300.00	-1,412.50	0.00	0.00	0.00	0.00	681,881.60	428,492.10
2,400.00	0.00	0.00	2,400.00	-1,312.50	0.00	0.00	0.00	0.00	681,881.60	428,492.10
2,500.00	0.00	0.00	2,500.00	-1,212.50	0.00	0.00	0.00	0.00	681,881.60	428,492.10
2,600.00	0.00	0.00	2,600.00	-1,112.50	0.00	0.00	0.00	0.00	681,881.60	428,492.10



Pathfinder Energy Services Pathfinder X & Y Planning Report



Company:	EOG Resources, Inc.	Local Co-ordinate Reference:	Well #4H
Project:	Eddy County	TVD Reference:	WELL @ 3712.50ft (Original Well Elev)
Site:	Skeena 35 Fed	MD Reference:	WELL @ 3712.50ft (Original Well Elev)
Well:	#4H	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	-1,012 50	0 00	0.00	0 00	0.00	681,881.60	428,492 10		
2,800.00	0 00	0 00	2,800 00	-912.50	0.00	0 00	0 00	0 00	681,881.60	428,492.10		
2,900.00	0.00	0 00	2,900 00	-812.50	0 00	0.00	0.00	0 00	681,881.60	428,492.10		
3,000 00	0 00	0 00	3,000.00	-712 50	0.00	0 00	0.00	0.00	681,881 60	428,492 10		
3,100.00	0.00	0 00	3,100.00	-612 50	0.00	0.00	0 00	0.00	681,881 60	428,492.10		
3,200.00	0.00	0.00	3,200 00	-512 50	0.00	0.00	0 00	0 00	681,881.60	428,492.10		
3,300.00	0 00	0 00	3,300 00	-412.50	0 00	0.00	0 00	0.00	681,881.60	428,492.10		
3,400 00	0 00	0 00	3,400 00	-312 50	0 00	0.00	0 00	0.00	681,881 60	428,492.10		
3,500 00	0 00	0 00	3,500.00	-212.50	0.00	0.00	0 00	0.00	681,881 60	428,492.10		
3,600.00	0 00	0.00	3,600.00	-112 50	0.00	0 00	0 00	0.00	681,881.60	428,492 10		
3,700 00	0 00	0 00	3,700.00	-12 50	0.00	0.00	0 00	0.00	681,881.60	428,492 10		
3,800 00	0 00	0 00	3,800 00	87 50	0.00	0.00	0 00	0 00	681,881.60	428,492 10		
3,900 00	0 00	0.00	3,900 00	187 50	0 00	0.00	0.00	0 00	681,881 60	428,492 10		
4,000.00	0.00	0.00	4,000.00	287.50	0 00	0 00	0.00	0.00	681,881 60	428,492 10		
4,100.00	0 00	0 00	4,100.00	387 50	0.00	0.00	0.00	0.00	681,881.60	428,492 10		
4,200 00	0.00	0 00	4,200 00	487.50	0.00	0.00	0 00	0.00	681,881 60	428,492.10		
4,300 00	0 00	0.00	4,300.00	587.50	0.00	0 00	0.00	0 00	681,881 60	428,492 10		
4,312 50	0 00	0.00	4,312 50	600.00	0 00	0.00	0.00	0 00	681,881.60	428,492 10		
4,325.00	1 50	91 87	4,325 00	612 50	-0.01	0 16	0.16	12 00	681,881.59	428,492.26		
4,350 00	4.50	91 87	4,349.96	637 46	-0 05	1.47	1.47	12 00	681,881 55	428,493.57		
4,375 00	7 50	91.87	4,374 82	662.32	-0.13	4 08	4 08	12.00	681,881.47	428,496.18		
4,400.00	10.50	91 87	4,399 51	687.01	-0 26	7 99	7 99	12 00	681,881 34	428,500 09		
4,425.00	13.50	91.87	4,423.96	711 46	-0.43	13.18	13.19	12.00	681,881 17	428,505.28		
4,450 00	16.50	91 87	4,448 11	735 61	-0.64	19 65	19.66	12.00	681,880.96	428,511.75		
4,475 00	19.50	91.87	4,471 88	759 38	-0 89	27 37	27 38	12 00	681,880.71	428,519 47		
4,500.00	22 50	91.87	4,495 22	782.72	-1 19	36.32	36 34	12 00	681,880 41	428,528.42		
4,525 00	25 50	91 87	4,518 05	805.55	-1.52	46.48	46.51	12 00	681,880 08	428,538.58		



Pathfinder Energy Services

Pathfinder X & Y Planning Report



Company: EOG Resources, Inc
Project: Eddy County
Site: Skeena 35 Fed
Well: #4H
Wellbore: OH
Design: IPlan #1

Local Co-ordinate Reference: Well #4H
TVD Reference: WELL @ 3712.50ft (Original Well Elev)
MD Reference: WELL @ 3712.50ft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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)
4,550.00	28.50	91.87	4,540.33	827.83	-1.89	57.83	57.86	12.00	681,879.71	428,549.93
4,575.00	31.50	91.87	4,561.98	849.48	-2.30	70.32	70.35	12.00	681,879.30	428,562.42
4,600.00	34.50	91.87	4,582.94	870.44	-2.74	83.92	83.97	12.00	681,878.86	428,576.02
4,625.00	37.50	91.87	4,603.17	890.67	-3.22	98.61	98.66	12.00	681,878.38	428,590.71
4,650.00	40.50	91.87	4,622.59	910.09	-3.73	114.33	114.39	12.00	681,877.87	428,606.43
4,675.00	43.50	91.87	4,641.17	928.67	-4.28	131.05	131.12	12.00	681,877.32	428,623.15
4,700.00	46.50	91.87	4,658.85	946.35	-4.86	148.71	148.79	12.00	681,876.74	428,640.81
4,725.00	49.50	91.87	4,675.57	963.07	-5.46	167.28	167.37	12.00	681,876.14	428,659.38
4,750.00	52.50	91.87	4,691.31	978.81	-6.10	186.69	186.79	12.00	681,875.50	428,678.79
4,775.00	55.50	91.87	4,706.00	993.50	-6.76	206.90	207.01	12.00	681,874.84	428,699.00
4,800.00	58.50	91.87	4,719.62	1,007.12	-7.44	227.85	227.98	12.00	681,874.16	428,719.95
4,825.00	61.50	91.87	4,732.12	1,019.62	-8.15	249.49	249.62	12.00	681,873.45	428,741.59
4,850.00	64.50	91.87	4,743.47	1,030.97	-8.87	271.75	271.90	12.00	681,872.73	428,763.85
4,875.00	67.50	91.87	4,753.64	1,041.14	-9.62	294.57	294.73	12.00	681,871.98	428,786.67
4,900.00	70.49	91.87	4,762.60	1,050.10	-10.38	317.90	318.07	12.00	681,871.22	428,810.00
4,925.00	73.49	91.87	4,770.32	1,057.82	-11.15	341.66	341.84	12.00	681,870.45	428,833.76
4,950.00	76.49	91.87	4,776.80	1,064.30	-11.94	365.79	365.98	12.00	681,869.66	428,857.89
4,975.00	79.49	91.87	4,782.00	1,069.50	-12.74	390.23	390.43	12.00	681,868.86	428,882.33
5,000.00	82.49	91.87	4,785.91	1,073.41	-13.55	414.90	415.12	12.00	681,868.05	428,907.00
5,025.00	85.49	91.87	4,788.52	1,076.02	-14.36	439.75	439.98	12.00	681,867.24	428,931.85
5,050.00	88.49	91.87	4,789.83	1,077.33	-15.17	464.70	464.95	12.00	681,866.43	428,956.80
5,062.56	90.00	91.87	4,790.00	1,077.50	-15.58	477.25	477.50	12.00	681,866.02	428,969.35
5,100.00	90.00	91.87	4,790.00	1,077.50	-16.80	514.67	514.94	0.00	681,864.80	429,006.77
5,200.00	90.00	91.87	4,790.00	1,077.50	-20.07	614.62	614.94	0.00	681,861.53	429,106.72
5,300.00	90.00	91.87	4,790.00	1,077.50	-23.33	714.56	714.94	0.00	681,858.27	429,206.66
5,400.00	90.00	91.87	4,790.00	1,077.50	-26.59	814.51	814.94	0.00	681,855.01	429,306.61
5,500.00	90.00	91.87	4,790.00	1,077.50	-29.86	914.46	914.94	0.00	681,851.74	429,406.56



Pathfinder Energy Services

Pathfinder X & Y Planning Report



Company:	EOG Resources, Inc.	Local Co-ordinate Reference:	Well #4H
Project:	Eddy County	TVD Reference:	WELL @ 3712.50ft (Original Well Elev)
Site:	Skeena 35 Fed	MD Reference:	WELL @ 3712.50ft (Original Well Elev)
Well:	#4H	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)
5,600.00	90.00	91.87	4,790.00	1,077.50	-33.12	1,014.40	1,014.94	0.00	681,848.48	429,506.50
5,700.00	90.00	91.87	4,790.00	1,077.50	-36.38	1,114.35	1,114.94	0.00	681,845.22	429,606.45
5,800.00	90.00	91.87	4,790.00	1,077.50	-39.65	1,214.30	1,214.94	0.00	681,841.95	429,706.40
5,900.00	90.00	91.87	4,790.00	1,077.50	-42.91	1,314.24	1,314.94	0.00	681,838.69	429,806.34
6,000.00	90.00	91.87	4,790.00	1,077.50	-46.17	1,414.19	1,414.94	0.00	681,835.43	429,906.29
6,100.00	90.00	91.87	4,790.00	1,077.50	-49.44	1,514.14	1,514.94	0.00	681,832.16	430,006.24
6,200.00	90.00	91.87	4,790.00	1,077.50	-52.70	1,614.08	1,614.94	0.00	681,828.90	430,106.18
6,300.00	90.00	91.87	4,790.00	1,077.50	-55.96	1,714.03	1,714.94	0.00	681,825.64	430,206.13
6,400.00	90.00	91.87	4,790.00	1,077.50	-59.23	1,813.98	1,814.94	0.00	681,822.37	430,306.08
6,500.00	90.00	91.87	4,790.00	1,077.50	-62.49	1,913.92	1,914.94	0.00	681,819.11	430,406.02
6,600.00	90.00	91.87	4,790.00	1,077.50	-65.75	2,013.87	2,014.94	0.00	681,815.85	430,505.97
6,700.00	90.00	91.87	4,790.00	1,077.50	-69.01	2,113.82	2,114.94	0.00	681,812.59	430,605.92
6,800.00	90.00	91.87	4,790.00	1,077.50	-72.28	2,213.77	2,214.94	0.00	681,809.32	430,705.87
6,900.00	90.00	91.87	4,790.00	1,077.50	-75.54	2,313.71	2,314.94	0.00	681,806.06	430,805.81
7,000.00	90.00	91.87	4,790.00	1,077.50	-78.80	2,413.66	2,414.94	0.00	681,802.80	430,905.76
7,100.00	90.00	91.87	4,790.00	1,077.50	-82.07	2,513.61	2,514.94	0.00	681,799.53	431,005.71
7,200.00	90.00	91.87	4,790.00	1,077.50	-85.33	2,613.55	2,614.94	0.00	681,796.27	431,105.65
7,300.00	90.00	91.87	4,790.00	1,077.50	-88.59	2,713.50	2,714.94	0.00	681,793.01	431,205.60
7,400.00	90.00	91.87	4,790.00	1,077.50	-91.86	2,813.45	2,814.94	0.00	681,789.74	431,305.55
7,500.00	90.00	91.87	4,790.00	1,077.50	-95.12	2,913.39	2,914.94	0.00	681,786.48	431,405.49
7,600.00	90.00	91.87	4,790.00	1,077.50	-98.38	3,013.34	3,014.94	0.00	681,783.22	431,505.44
7,700.00	90.00	91.87	4,790.00	1,077.50	-101.65	3,113.29	3,114.94	0.00	681,779.95	431,605.39
7,800.00	90.00	91.87	4,790.00	1,077.50	-104.91	3,213.23	3,214.94	0.00	681,776.69	431,705.33
7,900.00	90.00	91.87	4,790.00	1,077.50	-108.17	3,313.18	3,314.94	0.00	681,773.43	431,805.28
8,000.00	90.00	91.87	4,790.00	1,077.50	-111.44	3,413.13	3,414.94	0.00	681,770.16	431,905.23
8,100.00	90.00	91.87	4,790.00	1,077.50	-114.70	3,513.07	3,514.94	0.00	681,766.90	432,005.17
8,200.00	90.00	91.87	4,790.00	1,077.50	-117.96	3,613.02	3,614.94	0.00	681,763.64	432,105.12



Pathfinder Energy Services
Pathfinder X & Y Planning Report



Company:	EOG Resources, Inc.	Local Co-ordinate Reference:	Well #4H
Project:	Eddy County	TVD Reference:	WELL @ 3712.50ft (Original Well Elev)
Site:	Skeena 35 Fed	MD Reference:	WELL @ 3712.50ft (Original Well Elev)
Well:	#4H	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)
8,300.00	90.00	91.87	4,790.00	1,077.50	-121.23	3,712.97	3,714.94	0.00	681,760.37	432,205.07
8,400.00	90.00	91.87	4,790.00	1,077.50	-124.49	3,812.91	3,814.94	0.00	681,757.11	432,305.01
8,500.00	90.00	91.87	4,790.00	1,077.50	-127.75	3,912.86	3,914.94	0.00	681,753.85	432,404.96
8,600.00	90.00	91.87	4,790.00	1,077.50	-131.02	4,012.81	4,014.94	0.00	681,750.58	432,504.91
8,700.00	90.00	91.87	4,790.00	1,077.50	-134.28	4,112.75	4,114.94	0.00	681,747.32	432,604.85
8,800.00	90.00	91.87	4,790.00	1,077.50	-137.54	4,212.70	4,214.94	0.00	681,744.06	432,704.80
8,838.83	90.00	91.87	4,790.00	1,077.50	-138.81	4,251.51	4,253.78	0.00	681,742.79	432,743.61

PBHL(SK#4H)

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(SK#4H) - plan hits target - Point	0.00	0.00	4,790.00	-139.20	4,251.50	681,742.400	432,743.600	32° 52' 26.400 N	104° 33' 8.627 W

Checked By: _____ Approved By: _____ Date: _____

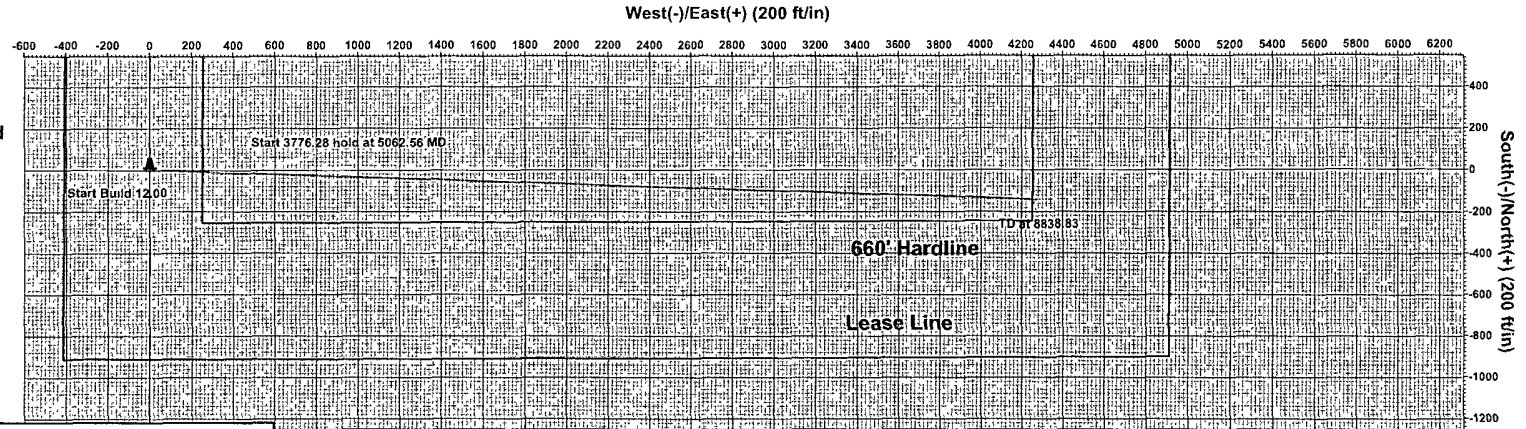


Azimuths to Grid North
True North: 0.13°
Magnetic North: 8.41°

Magnetic Field
Strength: 49095.1nT
Dip Angle: 60.67°
Date: 09/16/2009
Model: IGRF200510

PATHFINDER

Project: Eddy County
Site: Skeena 35 Fed
Well: #4H
Wellbore: OH
Plan: Plan #1 (#4H/OH)

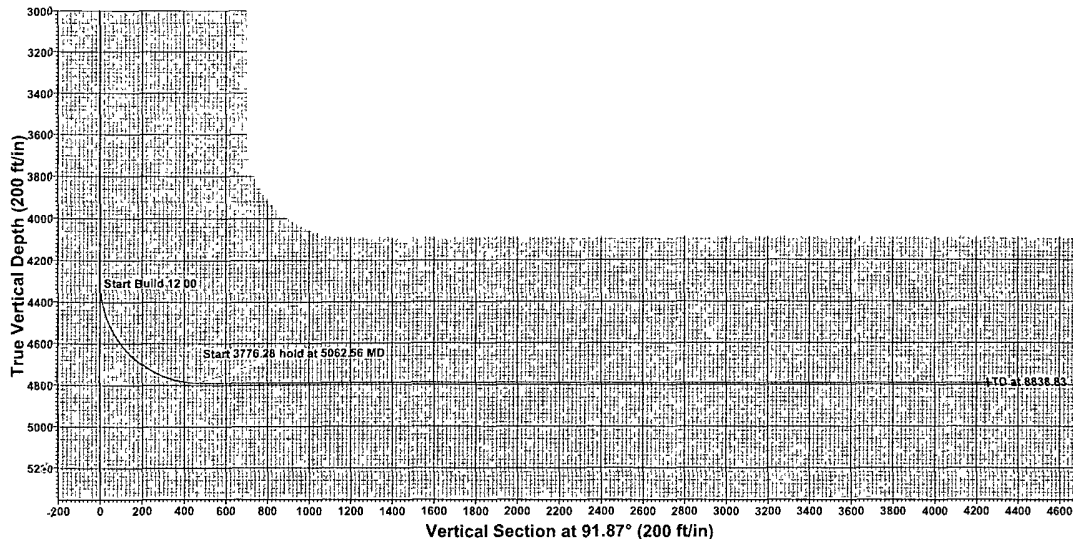


SECTION DETAILS									
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	4312.50	0.00	0.00	4312.50	0.00	0.00	0.00	0.00	0.00
3	5062.56	90.00	91.87	4790.00	-15.58	477.25	12.00	91.87	477.50
4	8838.83	90.00	91.87	4790.00	-138.81	4251.51	0.00	0.00	4253.78
PBHL(SK#4H)									

WELL DETAILS #4H							
Ground Elevation: 3693.50							
RKB Elevation: WELL @ 3712.50ft (Original Well Elev)							
Rig Name: Original Well Elev							
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot	
0.00	0.00	681881.600	428492.100	32° 52' 27.688 N	104° 33' 58.482 W		

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PBHL(SK#4H)	4790.00	-139.20	4251.50	681742.400	432743.600	Point

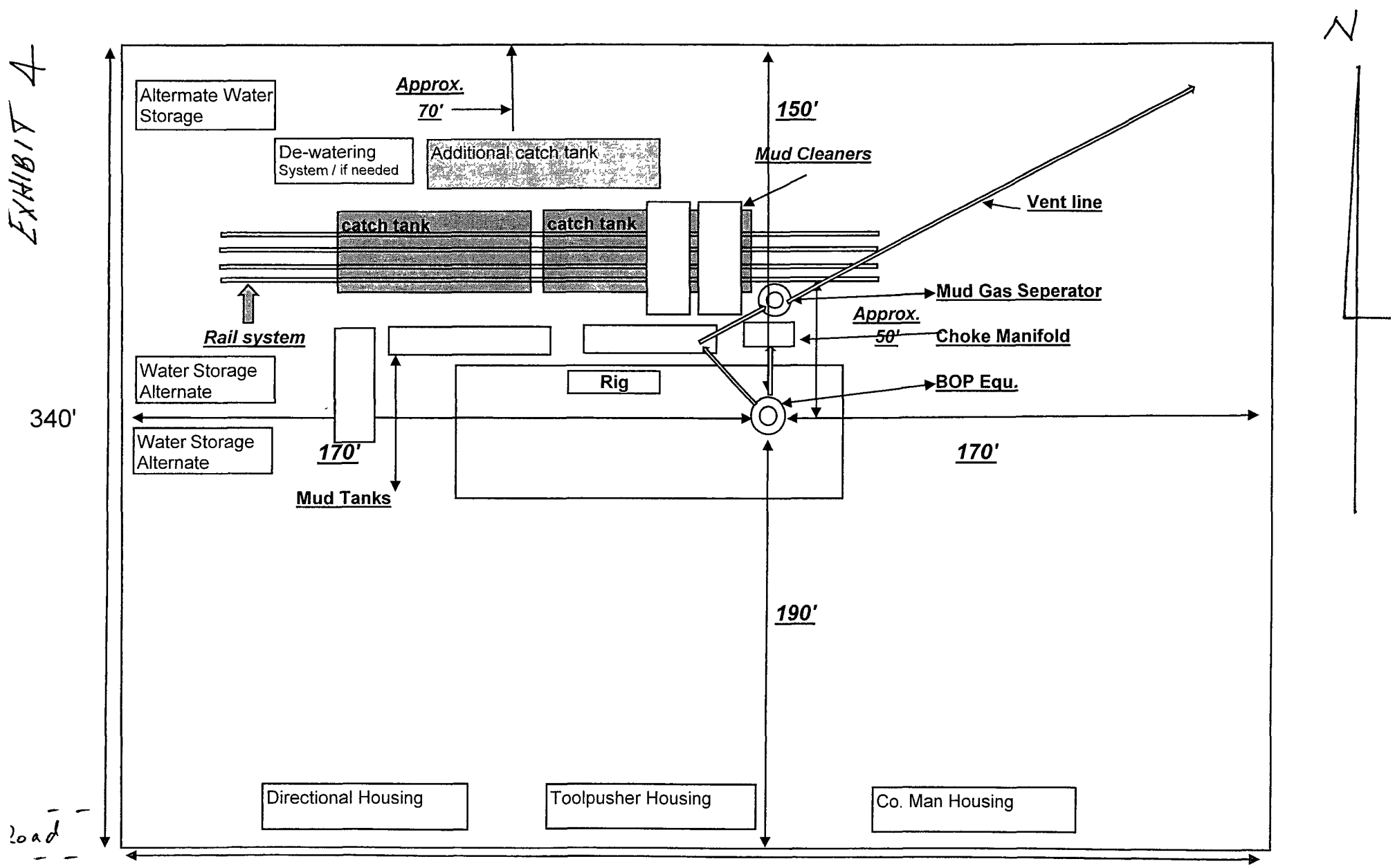
LEGEND
→ Plan #1



PROJECT DETAILS: Eddy 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

Plan: Plan #1 (#4H/OH)			
Created By	Nate Bingham	Date	14 19, September 16 2009
Checked		Date	

EXHIBIT 4



road

EOG Resources / Closed Loop Location Design Plan

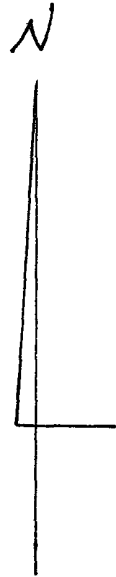
340'

Not to scale

6/30/2008

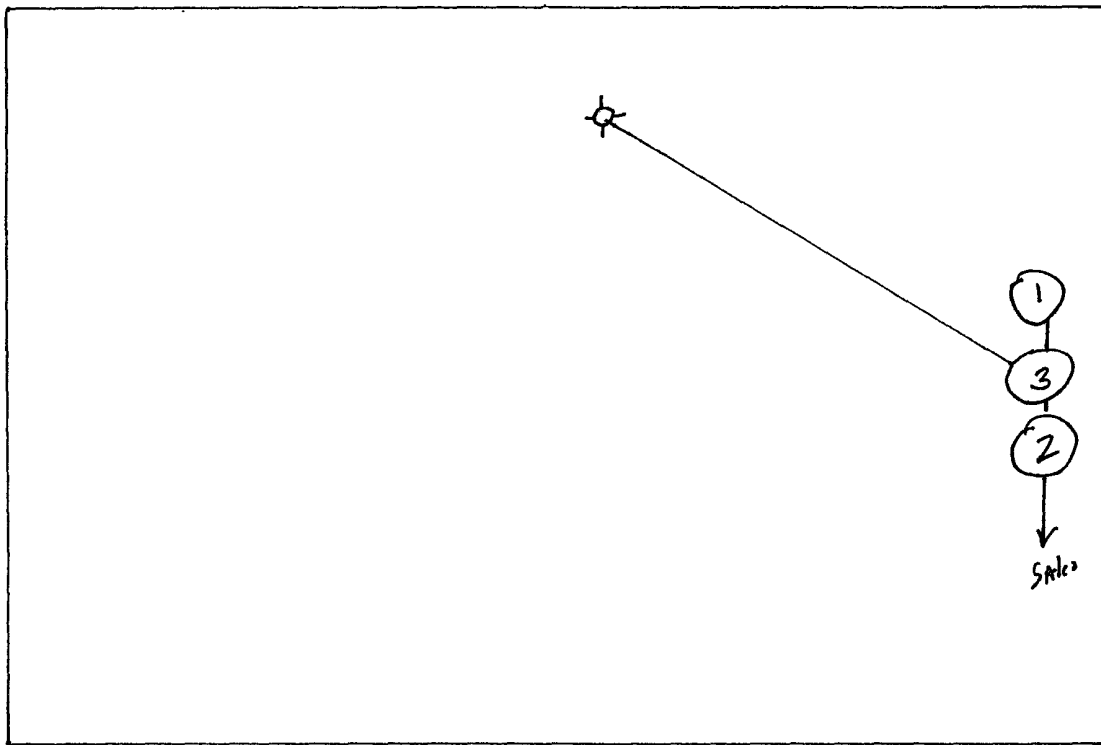
PRODUCTION FACILITY LAYOUT

WELL NAME: Skeena 35 Fed 4H



CLOSED LOOP
EQUIPMENT

Closed Loop
EQUIPMENT



"NOT TO SCALE"

1. Tank
2. Meter
3. Separator

EOG RESOURCES, INC.
SKEENA 35 FED 4H

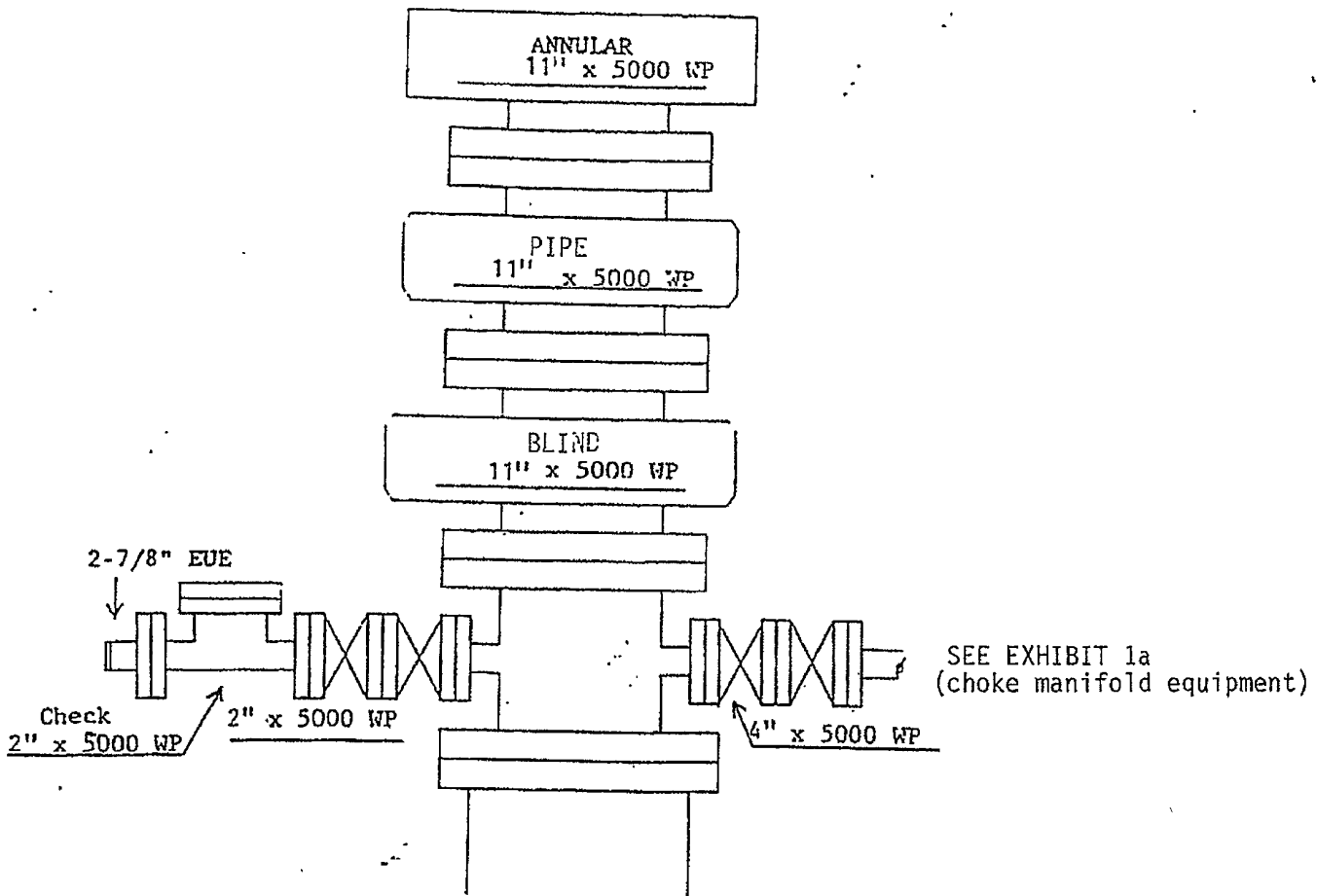
ATTACHMENT TO EXHIBIT #1

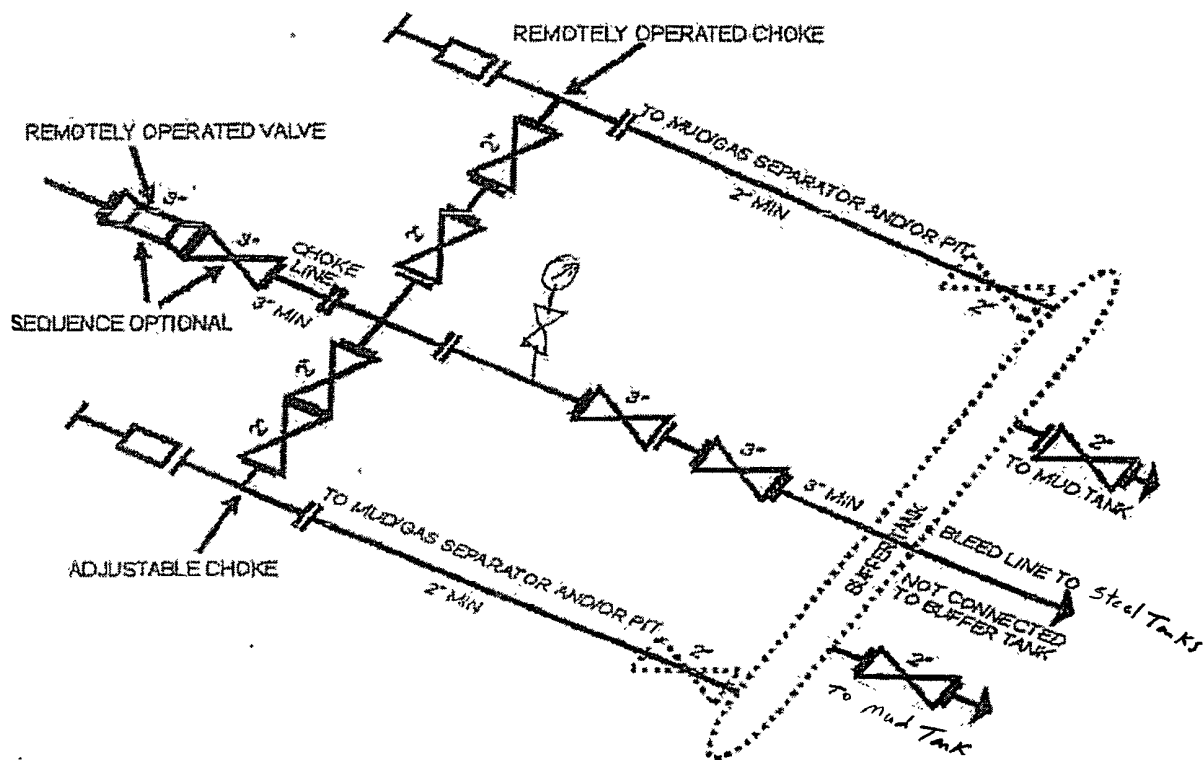
1. Wear ring to be properly installed in head.
2. Blow out preventer and all fittings must be in good condition, 5000 psi W.P. minimum. Exhibit #1.
3. All fittings to be flanged
4. Safety valve must be available on rig floor at all times with proper connections, valve to be full bore 5000 psi W.P. minimum.
5. All choke and fill lines to be securely anchored especially ends of choke lines.
6. Equipment through which bit must pass shall be at least as large as the diameter of the casing being drilled through.
7. Kelly cock on kelly.
8. Extension wrenches and hand wheels to be properly installed.
9. Blow out preventer control to be located as close to driller's position as feasible.
10. Blow out preventer closing equipment to include minimum 40-gallon accumulator, two independent sources of pump power on each closing unit installation, and meet all API specifications.

EXHIBIT 1

EOG Resources, Inc.

Skeena 35 Fed 4H



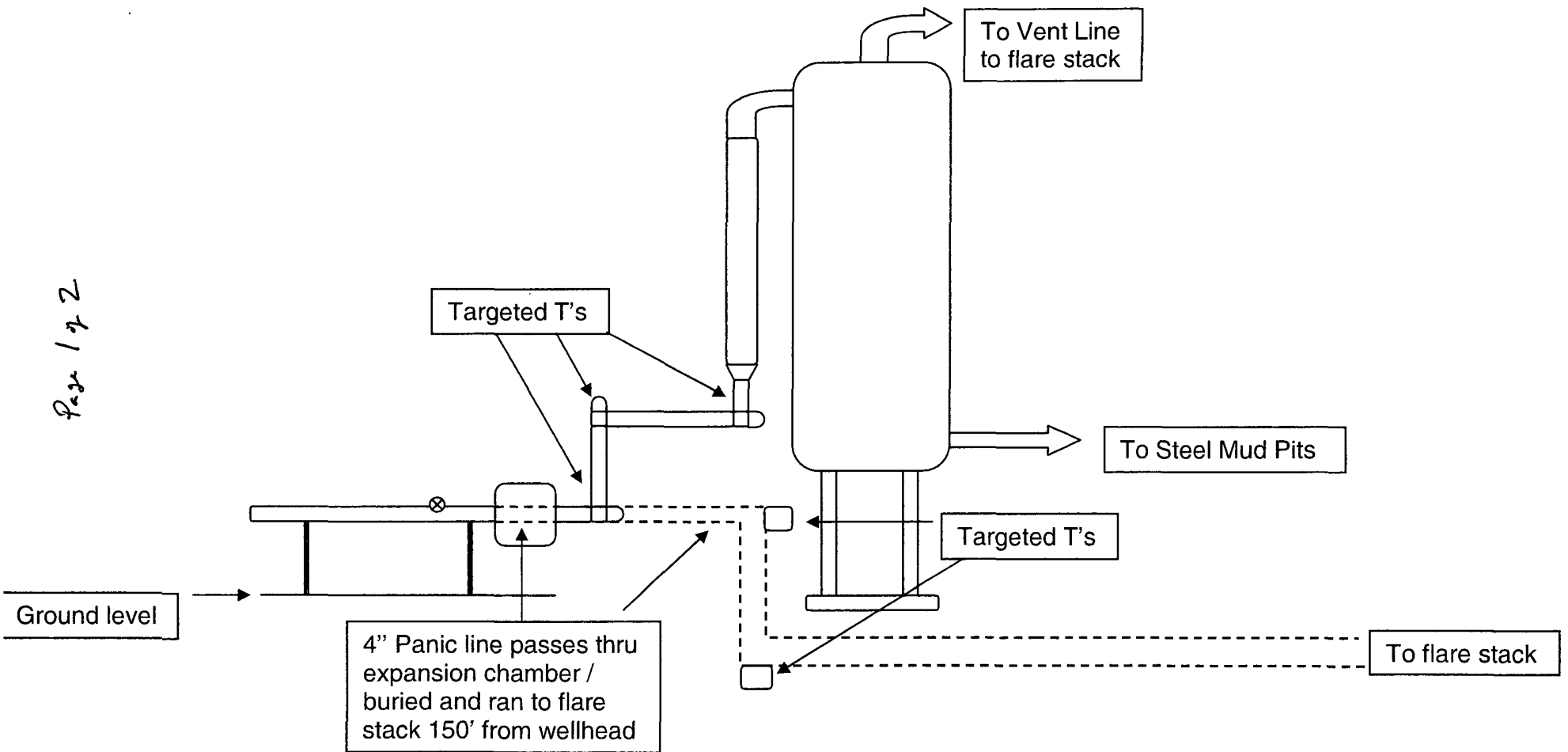


5M CHOKE MANIFOLD EQUIPMENT - CONFIGURATION OF CHOKES MAY VARY

Although not required for any of the choke manifold systems, buffer tanks are sometimes installed downstream of the choke assemblies for the purpose of manifolding the bleed lines together. When buffer tanks are employed, valves shall be installed upstream to isolate a failure or malfunction without interrupting flow control. Though not shown on 2M, 3M, 10M, OR 15M drawings, it would also be applicable to those situations.

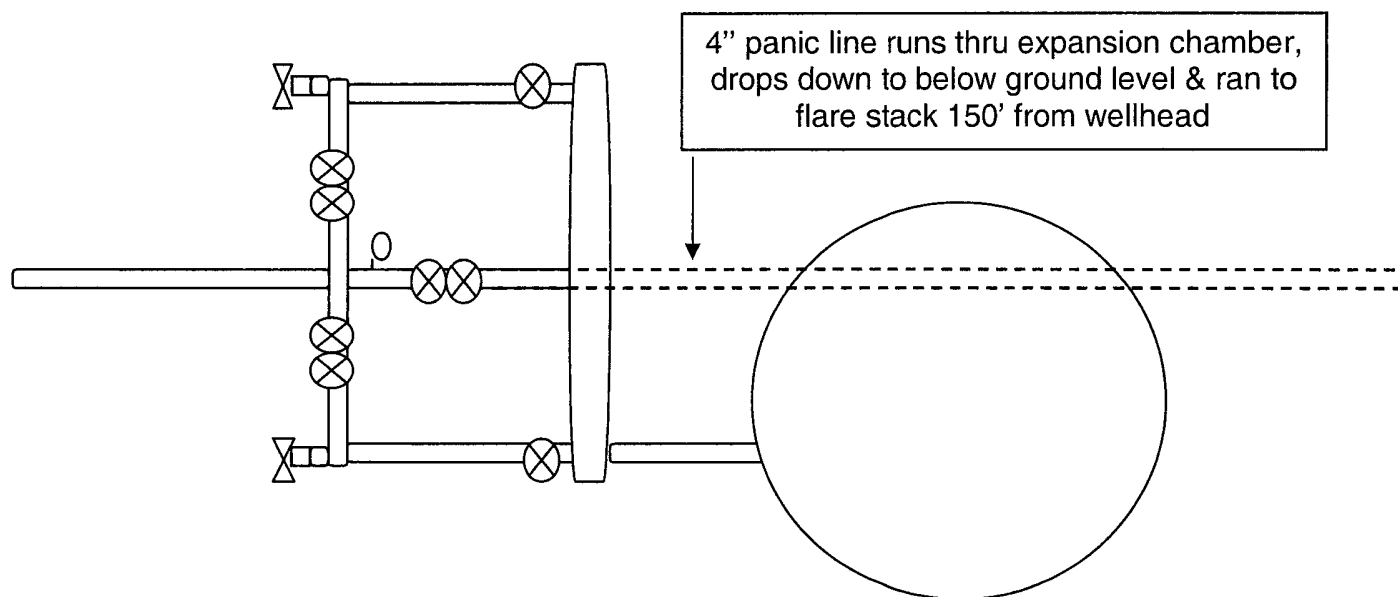
[54 FR 39528, Sept. 27, 1989]

Profile View of Piping from Choke Manifold to the Mud Gas Separator



Page 1 of 2

Aerial View of the Piping from the Choke
Manifold to the Mud Gas Separator





EOG Resources, Inc.

P.O. Box 2267
Midland, TX 79702
(432) 686-3600

September 16, 2009

State of New Mexico Energy, Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

To Whom It May Concern:

I am writing to request a waiver for the inclusion of an H₂S Contingency Plan for the Skeena 35 Fed #4H. The current plan is to complete this well in the Wolfcamp, which is sweet, and I do not anticipate encountering any H₂S bearing formations during drilling operations.

Sincerely,

Steve Munsell
Drilling Engineer

EOG RESOURCES, INC.
SKEENA 35 FED 4H

SURFACE USE PLAN OF OPERATION

SHL: 910' FSL & 410' FWL, Unit M, Section 35, T16S-R24E, N.M.P.M., Eddy, NM
BHL: 760' FSL & 660' FEL, Unit P, Section 35, T16S-R24E, N.M.P.M., Eddy, NM

1. EXISTING ROADS:

- a. The well site and elevation plat for the proposed well are reflected on the well site layout; Form C-102. The well was staked by Terry Asel, RPL 15079.
- b. All roads into the location are depicted on Exhibit 2, 2a & 2b.
- c. Directions to Locations: **From the Intersection of U.S. Hwy 82 & U.S. Hwy 285, Go west on Hwy 82 for 11.4 miles; turn right, go north on County Road No. 95 (Joy Road) for 4.2 miles; turn right, go east on County Road No. 75 for 1.2 miles; turn right, go south 1.8 miles; turn left, go east for 0.1 miles to the proposed location..**

2. NEW OR RECONSTRUCTED ACCESS ROAD:

- a. The well site layout, Exhibit 2a shows the layout. The trail road will be upgraded to a compact caliche all weather lease road a distance of 1.9 miles to location (Exhibit 2b).
- b. The maximum width of the road will be 15'. It will be crowned and made of 6" of rolled and compacted caliche. Water will be deflected, as necessary, to avoid accumulation and prevent soil erosion.
- c. Surface material will be native caliche. This material will be obtained from a BLM approved pit nearest in proximity to the location. The average grade will be approximately 1%.
- d. No cattleguards, gates or fence cuts will be required. No turnouts are planned.

3. LOCATION OF EXISTING WELLS:

Exhibit #3 shows all existing wells within a one-mile radius of this well.

4. LOCATION OF EXISTING AND/OR PROPOSED PRODUCTION FACILITIES:

- a. In the event the well is found to be productive, the Skeena 35 Fed 4H battery would be utilized and the necessary production equipment will be installed at the well site. See Production Facilities Layout diagram. It is the intention of the operator to use the Skeena 35 Fed 4H well site as the Central Tank Battery facility for any additional well locations drilled by operator associated with Federal Lease NM 108953, therefore, no interim reclamation intended.
- b. All flow lines will adhere to API standards.
- c. If the well is productive, rehabilitation plans are as follows:
 - i. No interim reclamation planned for the location.

EOG RESOURCES, INC.
SKEENA 35 FED 4H

- ii. At the time of final abandonment. The original topsoil from the well site will be returned to the location. The location will be contoured as close as possible to the original state (see Paragraph 10).

5. LOCATION AND TYPE OF WATER SUPPLY:

This location will be drilled using a combination of water mud systems (outlined in the drilling program). The water will be obtained from commercial water stations in the area and hauled to location by transport truck using existing and proposed roads shown in Exhibit 2, 2a & 2b. On occasion, water will be obtained from existing water wells. In these cases where a poly pipeline is used to transport water for drilling purposes, proper authorizations will be secured. If poly pipeline is used to transport fresh water to the location, proper authorization will be secured by the contractor.

6. CONSTRUCTION MATERIALS

All caliche utilized for the drilling pad and proposed access road will be obtained from an existing BLM approved pit or from prevailing deposits found under the location. All roads will be constructed of rolled and compacted caliche. Will use BLM recommended use of extra caliche from other locations close by roads, if available.

7. METHODS OF HANDLING WASTE MATERIALS

- a. Drill cuttings shall be disposed of in a steel cuttings bin (catch tanks) on the drilling pad (behind the steel mud tanks). The bin and cuttings shall be hauled to an approved cuttings dumpsite.
At the site, the cuttings shall be removed from the bin & the bin shall be returned to the drilling site for reuse.
- b. All trash, junk, and other waste material shall be contained in trash cages or trash bins to prevent scattering. When a job is completed, all contents shall be removed and disposed of in an approved landfill.
- c. The supplier, including broken sacks, shall pick up salts remaining after completion of well.
- d. If necessary, a porto-john shall be provided for the rig crews. This equipment shall be properly maintained during the drilling and completion operations and shall be removed when all operations are complete.
- e. Remaining drilling fluids shall be hauled off by transports to a state approved disposal site. Water produced during completion shall be put in storage tanks and disposed of in a state approved disposal. Oil and condensate produced shall be put in a storage tank and sold.
- f. Disposal of fluids to be transported by the following companies:
 - i. RGB TRUCKING
 - ii. LOBO TRUCKING

EOG RESOURCES, INC.
SKEENA 35 FED 4H

- iii. I & W TRUCKING
- iv. CRANE HOT OIL & TRANSPORT
- v. JWS
- vi. QUALITY TRUCKING

8. ANCILLARY FACILITIES:

- a. No airstrip, campsite, or other facilities will be built.

9. WELL SITE LAYOUT:

- a. Exhibit 4 shows the proposed location of reserve and sump pits, living facilities and well site layout with dimensions of the pad layout.
- b. Mud pits in the active circulating system shall be steel pits and the catch tanks shall be steel tanks set in shallow sumps behind the steel circulating tanks and sumps.

10. PLANS FOR SURFACE RECLAMATION:

- a. After concluding the drilling and/or completion operations, if the well is found non-commercial, and or at the time of final abandonment, the caliche shall be removed from the pad and transported to the original caliche pit or used for other drilling locations. The road and the well pad shall be reclaimed. The original topsoil from the well site shall be returned to the location. The location will be contoured as close as possible to the original state. The location shall be reclaimed as recommended by the BLM.

11. SURFACE OWNERSHIP

The surface is owned by the BLM. The surface is multiple use with the primary uses of the region for the grazing of livestock and the production of oil and gas.

EOG RESOURCES, INC.
SKEENA 35 FED 4H

12. OTHER INFORMATION:

- a. The area surrounding the well is grassland. The topsoil is sandy in nature. The vegetation is moderately sparse with native prairie grass, cactus and shinnery oak. No wildlife was observed but it is likely that deer, rabbits, coyotes, birds and rodents transverse the area.
- b. There are not dwellings within 1 miles of the location.
- c. There is no permanent or live water within .25 miles of the location.
- d. A Cutural Resources Examination will be conducted by Danny Boone and registered with BLM office in Carlsbad, New Mexico.

13. BOND COVERAGE:

- a. Bond Coverage is Nationwide; Bond No. NM 2308

EOG RESOURCES, INC.
SKEENA 35 FED 4H

COMPANY REPRESENTATIVES:

Representatives responsible for ensuring compliance of the surface use plan are listed below:

Permitting & Land

Mr. Donny G. Glanton
Senior Lease Operations ROW Representative
EOG Resources, Inc.
P.O. Box 2267
Midland, TX 79702
(432) 686-3642 Office
(432) 770-0602 Cell

Drilling

Mr. Steve Munsell
Drilling Engineer
EOG Resources, Inc.
P.O. Box 2267
Midland, TX 79702
(432) 686-3609 Office
(432) 894-1256 Cell

Operations

Mr. Howard Kemp
Production Manager
EOG Resources, Inc
P.O. Box 2267
Midland, TX 79702
(432) 686-3704 Office
(432) 634-1001 Cell

OPERATOR CERTIFICATION

I certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions that presently exist; that I have full knowledge of State and Federal Laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true, and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements. Executed this 23rd day of September, 2009.

Name: Donny G. Glanton

Position: Sr. Lease Operations ROW Representative

Address: P.O. Box 2267 Midland, TX 79705

Telephone: 432-686-3642

Email: donny_glanton@eogresources.com

Signed: Don D. Glanton

PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME:	EOG Resources, Inc.
LEASE NO.:	NM108953
WELL NAME & NO.:	Skeena 35 Fed # 4H
SURFACE HOLE FOOTAGE:	910' FSL & 410' FWL
BOTTOM HOLE FOOTAGE:	760' FSL & 660' FEL
LOCATION:	Section 35, T. 16 S., R 24 E., NMPM
COUNTY:	Eddy County, New Mexico

TABLE OF CONTENTS

Standard Conditions of Approval (COA) apply to this APD. If any deviations to these standards exist or special COAs are required, the section with the deviation or requirement will be checked below.

- ☐ **General Provisions**
- ☐ **Permit Expiration**
- ☐ **Archaeology, Palaeontology, and Historical Sites**
- ☐ **Noxious Weeds**
- ☒ **Special Requirements**
 - Aplomado Falcon
 - Range Improvement Notification/Requirement
 - V-door: East
- ☒ **Construction**
 - Notification
 - Topsoil
 - Closed Loop System
 - Federal Mineral Material Pits
 - Well Pads
 - Roads
- ☐ **Road Section Diagram**
- ☒ **Drilling**
 - Logging Requirements
- ☐ **Production (Post Drilling)**
 - Well Structures & Facilities
- ☒ **Interim Reclamation/Reseeding Procedure**
- ☐ **Final Abandonment/Reclamation**

I. GENERAL PROVISIONS

The approval of the Application For Permit To Drill (APD) is in compliance with all applicable laws and regulations: 43 Code of Federal Regulations 3160, the lease terms, Onshore Oil and Gas Orders, Notices To Lessees, New Mexico Oil Conservation Division (NMOCD) Rules, National Historical Preservation Act As Amended, and instructions and orders of the Authorized Officer. Any request for a variance shall be submitted to the Authorized Officer on Form 3160-5, Sundry Notices and Report on Wells.

II. PERMIT EXPIRATION

If the permit terminates prior to drilling and drilling cannot be commenced within 60 days after expiration, an operator is required to submit Form 3160-5, Sundry Notices and Reports on Wells, requesting surface reclamation requirements for any surface disturbance. However, if the operator will be able to initiate drilling within 60 days after the expiration of the permit, the operator must have set the conductor pipe in order to allow for an extension of 60 days beyond the expiration date of the APD. (Filing of a Sundry Notice is required for this 60 day extension.)

III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

Any cultural and/or paleontological resource discovered by the operator or by any person working on the operator's behalf shall immediately report such findings to the Authorized Officer. The operator is fully accountable for the actions of their contractors and subcontractors. The operator shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery shall be made by the Authorized Officer to determine the appropriate actions that shall be required to prevent the loss of significant cultural or scientific values of the discovery. The operator shall be held responsible for the cost of the proper mitigation measures that the Authorized Officer assesses after consultation with the operator on the evaluation and decisions of the discovery. Any unauthorized collection or disturbance of cultural or paleontological resources may result in a shutdown order by the Authorized Officer.

IV. NOXIOUS WEEDS

The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, pads, associated pipeline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

V. SPECIAL REQUIREMENT(S)

In order to minimize impacts to aplomado falcon, the following Conditions of Approval will apply:

- No yuccas or trees over 5 feet in height will be damaged, to protect nesting structures.
- All active raptor nests will be avoided by a minimum of 400 meters by all activities or curtail activities until fledging is complete. All inactive raptor nests will be avoided by a minimum of 200 meters by all activities.
- Well pad size will not exceed 340 ft. x 340 ft.
- All roads associated with well development will not exceed 14 ft in width
- Reserve pits for drilling and disposal are not allowed unless the pit can be effectively netted to the satisfaction of the BLM. Steel tank circulation system must be used if the reserve pit is not netted.
- All unused portions of the well pad associated with producing wells will be reclaimed following the abandoned well protocol below
- Final abandonment protocol: Remove all caliche from well pads and roads that are plugged and abandoned. Reclamation will consist of disking, mulching, seeding with a drill (See seed mixture below), and application of water to encourage seed germination.

Range Improvement Notification/Requirement:

The ranching lessee shall be notified by letter and phone before construction begins. No construction of the proposed project or entry through fences shall be conducted until the rancher responds by letter or phone.

Cattleguards: Appropriately sized cattleguards sufficient to carry out the project shall be installed and maintained at fence crossings. Any existing cattleguard(s) on the access road shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattleguard(s) that are in place and are utilized during lease operations. A gate shall be constructed on one side of the cattleguard and fastened securely to H-braces.

V-door: East

VI. CONSTRUCTION

A. NOTIFICATION

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Carlsbad Field Office at (575) 234-5972 at least 3 working days prior to commencing construction of the access road and/or well pad.

When construction operations are being conducted on this well, the operator shall have the approved APD and Conditions of Approval (COA) on the well site and they shall be made available upon request by the Authorized Officer.

B. TOPSOIL

The operator shall stockpile the topsoil of the well pad. The topsoil shall not be used to backfill the reserve pit and will be used for interim and final reclamation.

C. CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No Pits.

The operator shall properly dispose of drilling contents at an authorized disposal site.

D. FEDERAL MINERAL MATERIALS PIT

If the operator elects to surface the access road and/or well pad, mineral materials extracted during construction of the reserve pit may be used for surfacing the well pad and access road and other facilities on the lease.

Payment shall be made to the BLM prior to removal of any additional federal mineral materials from any site other than the reserve pit. Call the Carlsbad Field Office at (575) 234-5972.

E. WELL PAD SURFACING

Surfacing of the well pad is not required.

If the operator elects to surface the well pad, the surfacing material may be required to be removed at the time of reclamation.

The well pad shall be constructed in a manner which creates the smallest possible surface disturbance, consistent with safety and operational needs.

F. ON LEASE ACCESS ROADS

Road Width

The access road shall have a driving surface that creates the smallest possible surface disturbance and does not exceed fourteen (14) feet in width. The maximum width of surface disturbance, when constructing the access road, shall not exceed thirty (30) feet.

Surfacing

Surfacing material is not required on the new access road driving surface. If the operator elects to surface the new access road or pad, the surfacing material may be required to be removed at the time of reclamation.

Where possible, no improvements should be made on the unsurfaced access road other than to remove vegetation as necessary, road irregularities, safety issues, or to fill low areas that may sustain standing water.

The Authorized Officer reserves the right to require surfacing of any portion of the access road at any time deemed necessary. Surfacing may be required in the event the road deteriorates, erodes, road traffic increases, or it is determined to be beneficial for future field development. The surfacing depth and type of material will be determined at the time of notification.

Crowning

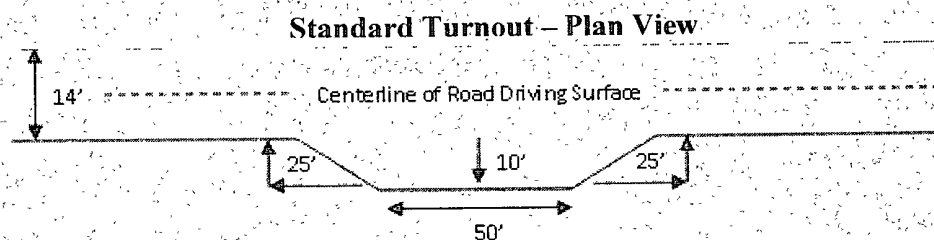
Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2% (i.e., a 1" crown on a 14' wide road). The road shall conform to Figure 1; cross section and plans for typical road construction.

Ditching

Ditching shall be required on both sides of the road.

Turnouts

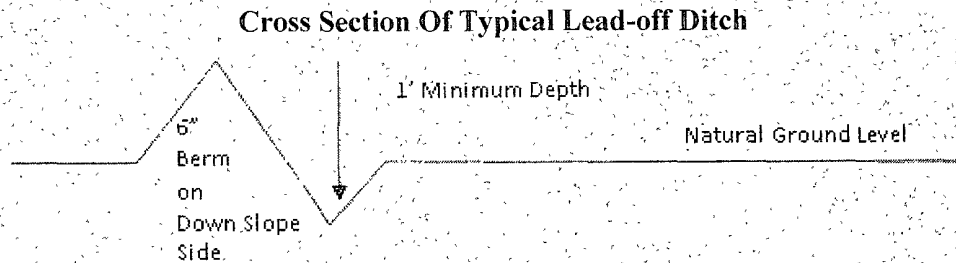
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall be constructed on all blind curves. Turnouts shall conform to the following diagram:



Drainage

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outslowing and inslaping, lead-off ditches, culvert installation, and low water crossings).

A typical lead-off ditch has a minimum depth of 1 foot below and a berm of 6 inches above natural ground level. The berm shall be on the down-slope side of the lead-off ditch.



All lead-off ditches shall be graded to drain water with a 1 percent minimum to 3 percent maximum ditch slope. The spacing interval are variable for lead-off ditches and shall be determined according to the formula for spacing intervals of lead-off ditches, but may be amended depending upon existing soil types and centerline road slope (in %);

Formula for Spacing Interval of Lead-off Ditches

Example - On a 4% road slope that is 400 feet long, the water flow shall drain water into a lead-off ditch. Spacing interval shall be determined by the following formula:

$$400 \text{ foot road with } 4\% \text{ road slope: } 400' / 4\% + 100' = 200' \text{ lead-off ditch interval}$$

Culvert Installations

Appropriately sized culvert(s) shall be installed at the deep waterway channel flow crossing.

Fence Requirement

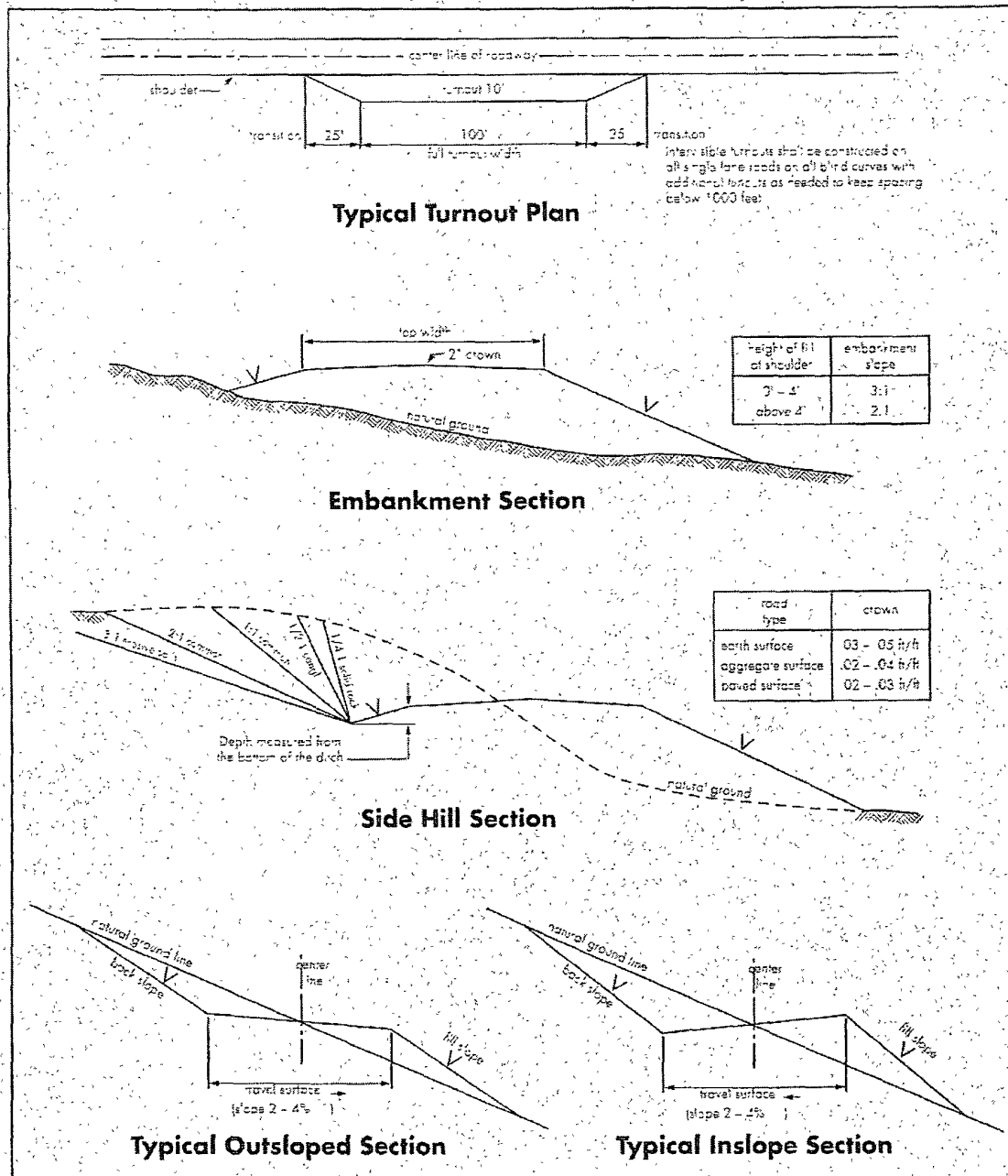
Where entry is required across a fence line, the fence shall be braced and tied off on both sides of the passageway prior to cutting.

The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fence(s).

Public Access

Public access on this road shall not be restricted by the operator without specific written approval granted by the Authorized Officer.

Figure 1 – Cross Sections and Plans For Typical Road Sections



VII. DRILLING

A. DRILLING OPERATIONS REQUIREMENTS

The BLM is to be notified a minimum of 4 hours in advance for a representative to witness:

- a. Spudding well
- b. Setting and/or Cementing of all casing strings
- c. BOPE tests

☒ **Eddy County**

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,
(575) 361-2822

1. **Although Hydrogen Sulfide has not been reported in this section, it is always a possible hazard. It has been reported in the Township to the east. If Hydrogen Sulfide is encountered, please report measured amounts and formations to the BLM.**
2. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
3. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
4. **The record of the drilling rate along with the CAL/GR/N well log run from TD to surface will be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies.**

B. CASING

Changes to the approved APD casing and cement program require submitting a sundry and receiving approval prior to work. Failure to obtain approval prior to work will result in an Incident of Non-Compliance being issued.

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

Wait on cement (WOC) time for a primary cement job will be a minimum 18 hours for a water basin, 24 hours in the potash area, or 500 pounds compressive strength, whichever is greater for all casing strings. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. See individual casing strings for details regarding lead cement slurry requirements.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

**Possible lost circulation in the Grayburg and San Andres Formations.
Possible artesian flows in the upper San Andres Formation.**

1. The **8-5/8** inch surface casing shall be set at approximately 1200 feet and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with a surface log readout will be used or a cement bond log shall be run to verify the top of the cement.
 - b. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.**
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.

Centralizers required on horizontal leg, must be type for horizontal service and minimum of one every other joint.

2. The minimum required fill of cement behind the **5-1/2** inch production casing is:
 - ☒ Cement to surface. If cement does not circulate, contact the appropriate BLM office.
3. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

C. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
2. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **3000 (3M) psi. Operator installing a 5M system but testing as a 3M.**
3. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. The tests shall be done by an independent service company.
 - b. The results of the test shall be reported to the appropriate BLM office.
 - c. All tests are required to be recorded on a calibrated test chart. **A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.**
 - d. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug.
 - e. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the **Wolfcamp** formation if the time between spudding and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

D. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the **Wolfcamp** formation, and shall be used until production casing is run and cemented.

E. DRILL STEM TEST

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

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VIII. PRODUCTION (POST DRILLING)

A. WELL STRUCTURES & FACILITIES

Placement of Production Facilities

Production facilities should be placed on the well pad to allow for maximum interim recontouring and revegetation of the well location.

Containment Structures

The containment structure shall be constructed to hold the capacity of the entire contents of the largest tank, plus 24 hour production, unless more stringent protective requirements are deemed necessary by the Authorized Officer.

Painting Requirement

All above-ground structures including meter housing that are not subject to safety requirements shall be painted a flat non-reflective paint color
Shale Green, Munsell Soil Color Chart # 5Y 4/2

IX. INTERIM RECLAMATION & RESEEDING PROCEDURE

A. INTERIM RECLAMATION

If the well is a producer, interim reclamation shall be conducted on the well site in accordance with the orders of the Authorized Officer. The operator shall submit a Sundry Notices and Reports on Wells (Notice of Intent), Form 3160-5, prior to conducting interim reclamation.

During the life of the development, all disturbed areas not needed for active support of production operations should undergo interim reclamation in order to minimize the environmental impacts of development on other resources and uses.

The operators should work with BLM surface management specialists to devise the best strategies to reduce the size of the location. Any reductions should allow for remedial well operations, as well as safe and efficient removal of oil and gas.

During reclamation, the removal of caliche is important to increasing the success of revegetating the site. Removed caliche may be used for road repairs, fire walls or for building other roads and locations. In order to operate the well or complete workover operations, it may be necessary to drive, park and operate on restored interim vegetation within the previously disturbed area. Disturbing revegetated areas for production or workover operations will be allowed. If there is significant disturbance and loss of vegetation, the area will need to be revegetated. Communicate with the appropriate BLM office for any exceptions/exemptions if needed.

B. RESEEDING PROCEDURE

Once the well is drilled, all completion procedures accomplished and all trash removed, reseed the location and all surrounding disturbed areas as follows:

Aplomado Falcon Habitat Seed Mixture

Buffalograss (<i>Buchloe dactyloides</i>)) -----	4 lbs/acre
Blue grama (<i>Bouteloua gracilis</i>) -----	1 lb/acre
Cane bluestem (<i>Bothriochloa barbinodis</i>) -----	5 lbs/acre
Sideoats grama (<i>Bouteloua curtipendula</i>) -----	5 lbs/acre
Plains bristlegrass (<i>Setaria macrostachya</i>) -----	6 lbs/acre

X. FINAL ABANDONMENT & REHABILITATION REQUIREMENTS

Upon abandonment of the well and/or when the access road is no longer in service the Authorized Officer shall issue instructions and/or orders for surface reclamation and restoration of all disturbed areas.

On private surface/federal mineral estate land the reclamation procedures on the road and well pad shall be accomplished in accordance with the private surface land owner agreement.