APR 13 2009

OCD-ARTESIA

RM

ATS-09-280

387

Form 3160-3
(February 2005)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5 Lease Serial No.
NM 016780 (SHL) BHL - Fee

6. If Indian, Allotee or Tribe Name

1a. Type of work: ☑ DRILL ☐ REENTER

7 If Unit or CA Agreement, Name and No

1b. Type of Well. ☐ Oil Well ☑ Gas Well ☐ Other ☐ Single Zone ☐ Multiple Zone

8. Lease Name and Well No.
Tippecanoe A 7 Fed Com 2H 37662

2 Name of Operator
EOG Resources, Inc.

9. API Well No.
30-015- 37037

3a Address **P.O. Box 2267 Midland, TX 79702**

3b Phone No. *(include area code)*
432-686-3642

10 Field and Pool, or Exploratory
Collins Ranch; WC Gas ✓

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*
At surface **1880' FNL & 400' FWL (U/L E)**
At proposed prod zone **1880' FNL & 660' FEL (U/L H)**

11 Sec., T. R. M. or Blk. and Survey or Area
Section 7, T17S-R24E, N.M.P.M.

14 Distance in miles and direction from nearest town or post office*
Approx 12.5 miles W of Artesia, NM

12 County or Parish
Eddy

13 State
NM

15 Distance from proposed* location to nearest property or lease line, ft (Also to nearest drig unit line, if any)	16 No. of acres in lease	17 Spacing Unit dedicated to this well
400'	**320**	**N/2 Sec 7, T17S-R24E, N.M.P.M.**
18 Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19 Proposed Depth	20. BLM/BIA Bond No. on file
1120'	**4657'TVD; 8585'TMD**	**NM2308**
21 Elevations (Show whether DF, KDB, RT, GL, etc)	22. Approximate date work will start*	23. Estimated duration
GL 3859.7	**04/01/2009**	**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	Name *(Printed/Typed)*	Date
Don G. Glanton	**Donny G. Glanton**	**02/06/2009**

Title
Sr. Lease Operations ROW Representative

Approved by *(Signature)*	Name *(Printed/Typed)*	Date
/s/ Don Peterson	/s/ Don Peterson	APR 09 2009
Title **FIELD MANAGER**	Office **CARLSBAD FIELD OFFICE**	

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon
Conditions of approval, if any, are attached.

FOR
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

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

Approval Subject to General Requirements
& 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	Pool Code	Pool Name
30-015-37037	75010	Collins Ranch ; WC GAS

Property Code	Property Name	Well Number
37662	TIPPECANOE "A" 7 FED. COM	2H

OGRID No.	Operator Name	Elevation
7377	EOG RESOURCES, INC.	3859.7'

Surface Location

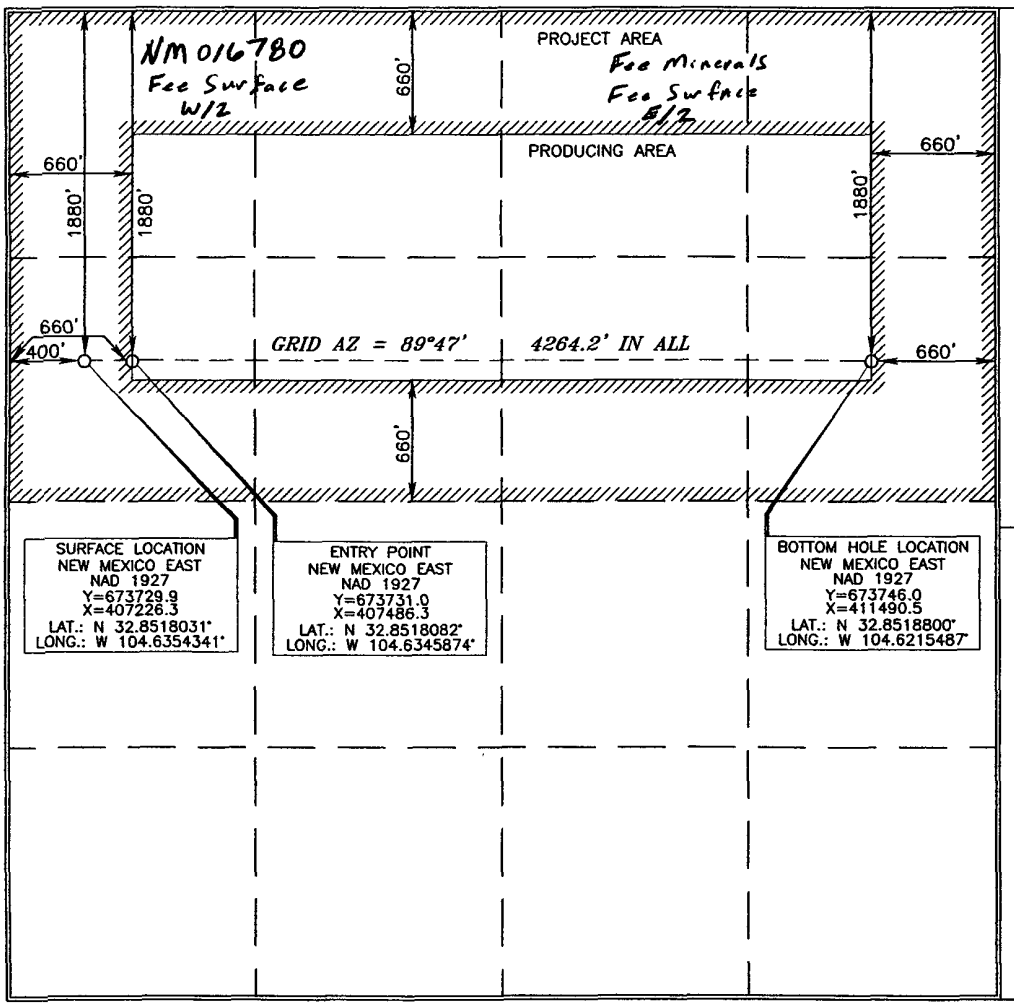
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	7	17 SOUTH	24 EAST, N.M.P.M.		1880	NORTH	400	WEST	EDDY

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
H	7	17 SOUTH	24 EAST, N.M.P.M.		1880	NORTH	660	EAST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
320			

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature — Date: 2/5/09

Donny G. Glanton
Printed Name

SURVEYOR CERTIFICATION

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

JANUARY 15, 2009
Date of Survey

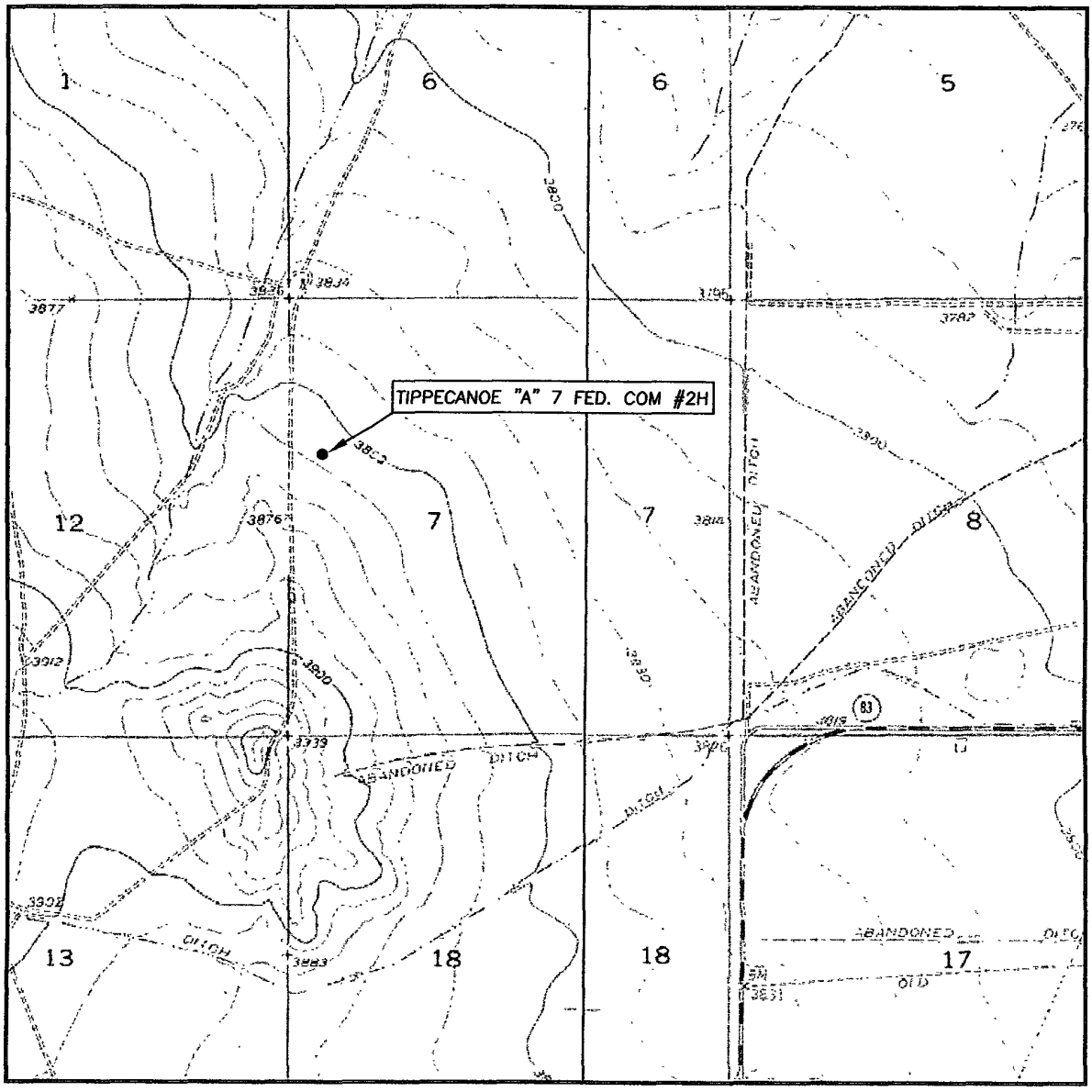
Signature and Seal of Professional Surveyor

NEW MEXICO — 15079 — REGISTERED PROFESSIONAL LAND SURVEYOR

1/27/2009
Certificate Number 15079

WO# 080807WL-b (KA)

LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL: 10'

SEC. 7 TWP. 17-S RGE. 24-E

SURVEY N.M.P.M.

COUNTY EDDY

DESCRIPTION 1880' FNL & 400' FWL

ELEVATION 3859.7'

OPERATOR EOG RESOURCES INC.

LEASE TIPPECANOE "A" 7 FED. COM #2H

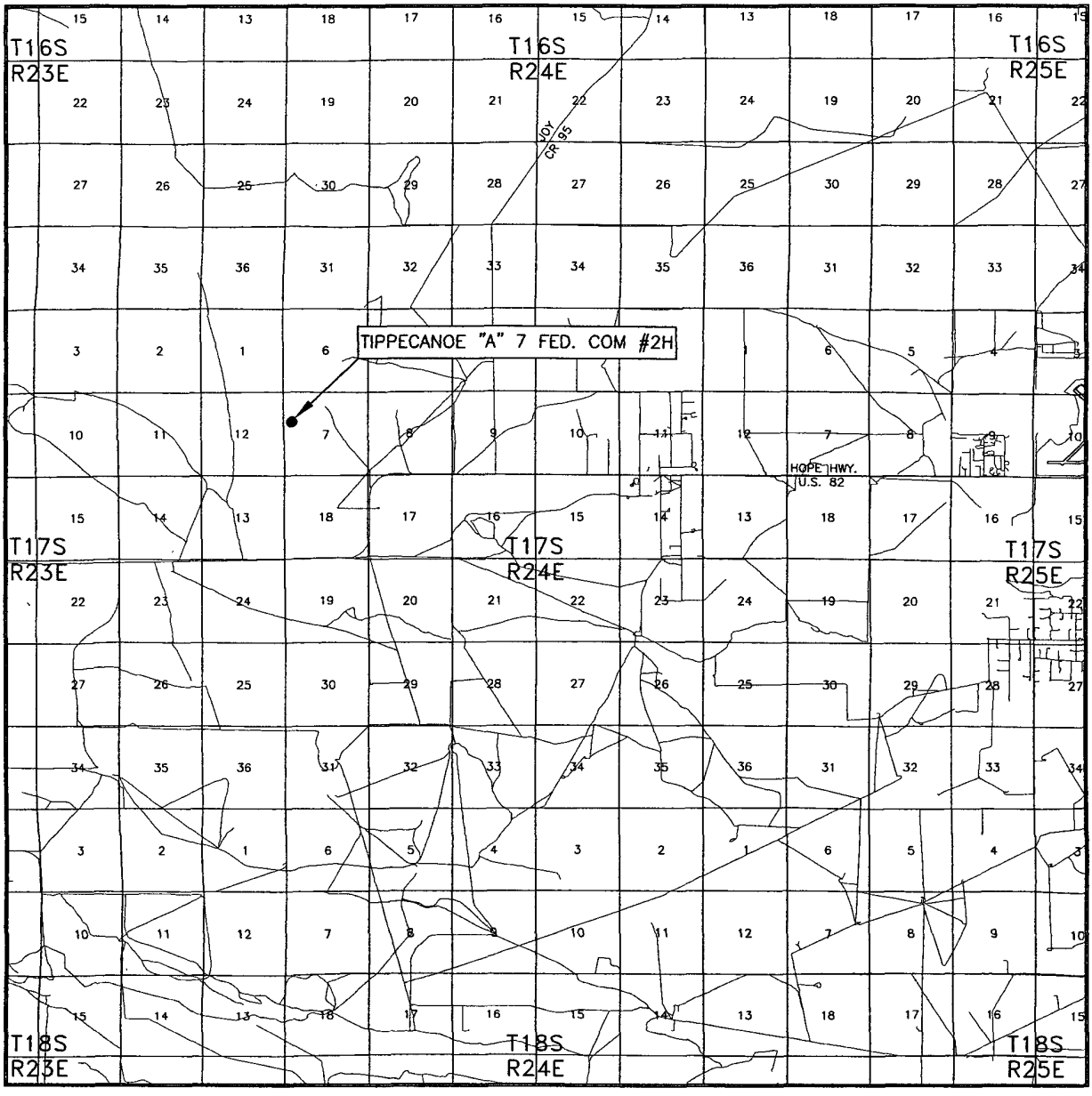
U.S.G.S. TOPOGRAPHIC MAP
HOPE, N.M.

Asel Surveying

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

Exhibit 2

VICINITY MAP



SEC. 7 TWP. 17-S RGE. 24-E
SURVEY N.M.P.M.
COUNTY EDDY
DESCRIPTION 1880' FNL & 400' FWL
ELEVATION 3859.7'
OPERATOR EOG RESOURCES INC.
LEASE TIPPECANOE "A" 7 FED. COM #2H

SCALE: 1" = 2 MILES

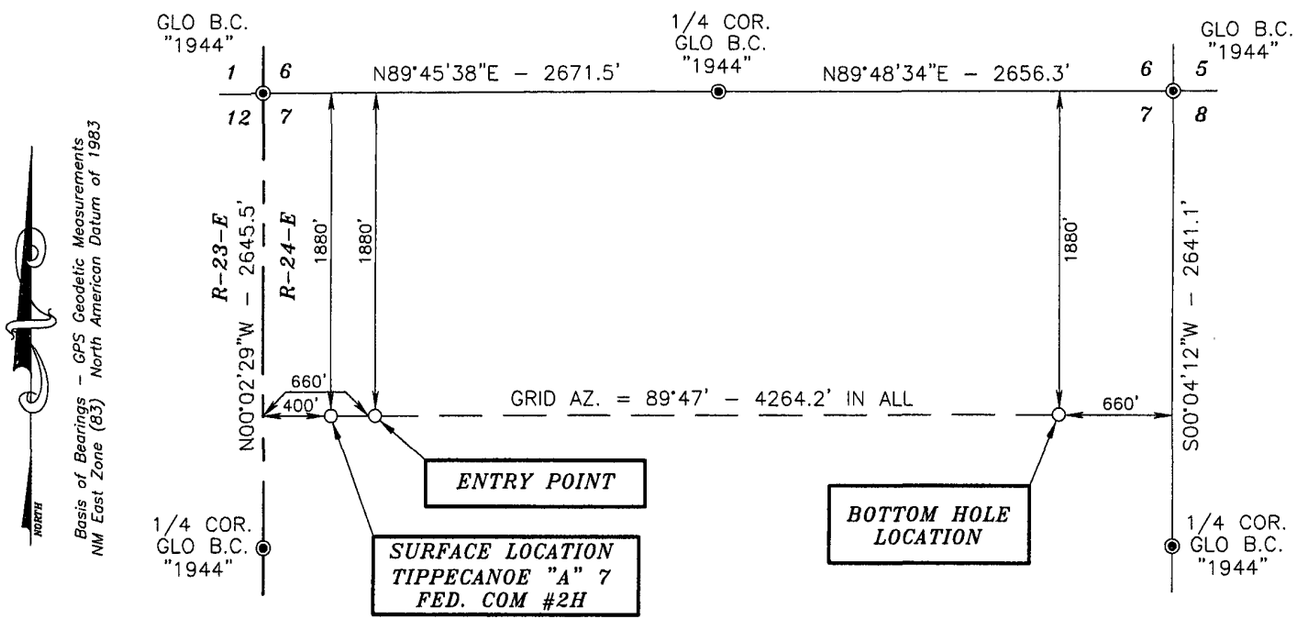
Asel Surveying

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

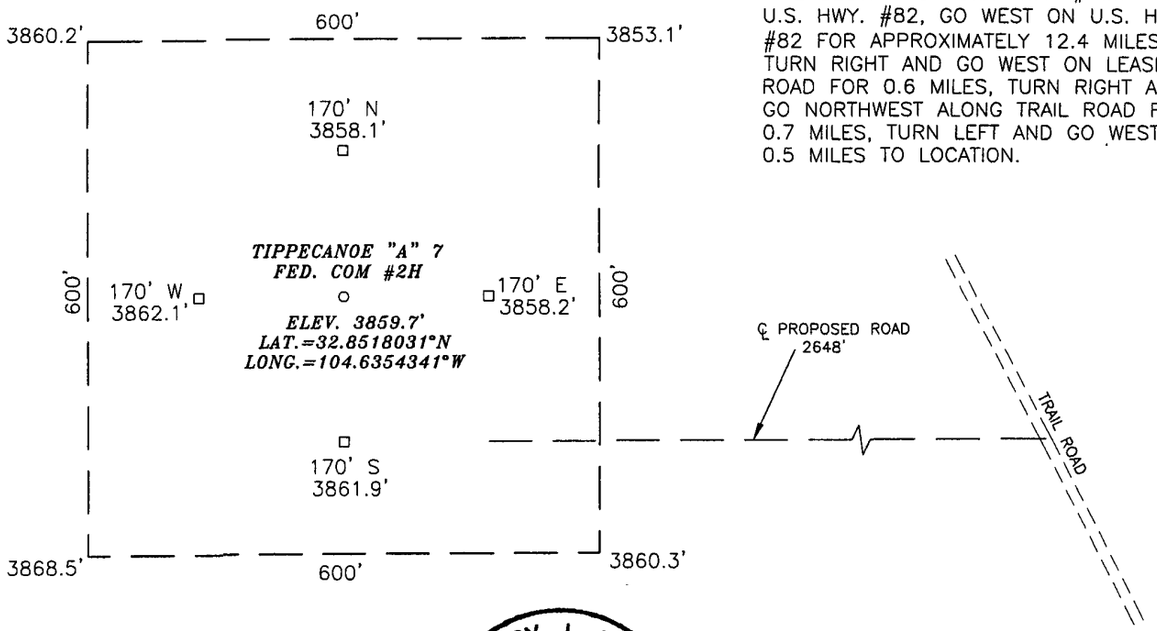
DIRECTIONS BEGINNING IN ARTESIA AT THE INTERSECTION OF U.S. HWY. #285 AND U.S. HWY. #82, GO WEST ON U.S. HWY. #82 FOR APPROXIMATELY 12.4 MILES, TURN RIGHT AND GO WEST ON LEASE ROAD FOR 0.6 MILES, TURN RIGHT AND GO NORTHWEST ALONG TRAIL ROAD FOR 0.7 MILES, TURN LEFT AND GO WEST FOR 0.5 MILES TO LOCATION.

SECTION 7, TOWNSHIP 17 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 APPROXIMATELY 12.4 MILES, TURN RIGHT AND GO WEST ON LEASE ROAD FOR 0.6 MILES, TURN RIGHT AND GO NORTHWEST ALONG TRAIL ROAD FOR 0.7 MILES, TURN LEFT AND GO WEST FOR 0.5 MILES TO LOCATION.



SCALE–1'=200'

TERRY J. ASEL NEW MEXICO 15079 REGISTERED PROFESSIONAL LAND SURVEYOR

◉ – DENOTES FOUND MONUMENT AS NOTED

1000' 0 1000' 2000' FEET
SCALE: 1"=1000'

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 N.M. R.P.S. No. 15079 1/27/2009

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

EOG RESOURCES, INC.

TIPPECANOE "A" 7 FED. COM #2H WELL
LOCATED AT 1880' FROM THE NORTH LINE AND
400' FROM THE WEST LINE OF SECTION 7,
TOWNSHIP 17 SOUTH, RANGE 24 EAST,
N.M.P.M., EDDY COUNTY, NEW MEXICO

Survey Date: 01/15/09	Sheet 1 of 1 Sheets	
W.O. Number: 080807WL–b	Drawn By: KA	Rev:
Date: 01/26/09	080807WL–b	Scale:1"=1000'

Exhibit 3

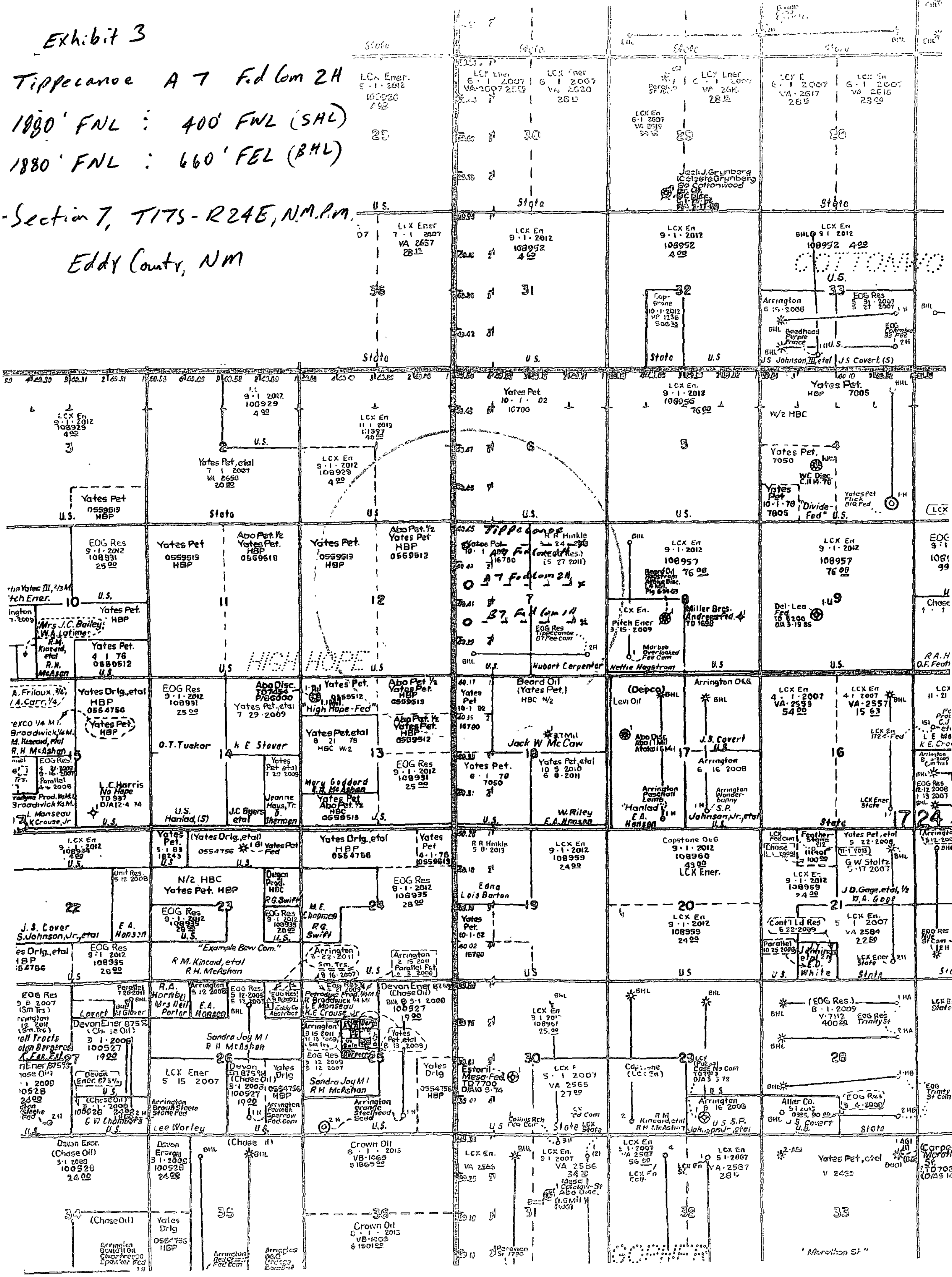
Tippecanoe A 7 Fed Com 2H

1880' FNL : 400' FWL (SHL)

1880' FNL : 660' FEL (BHL)

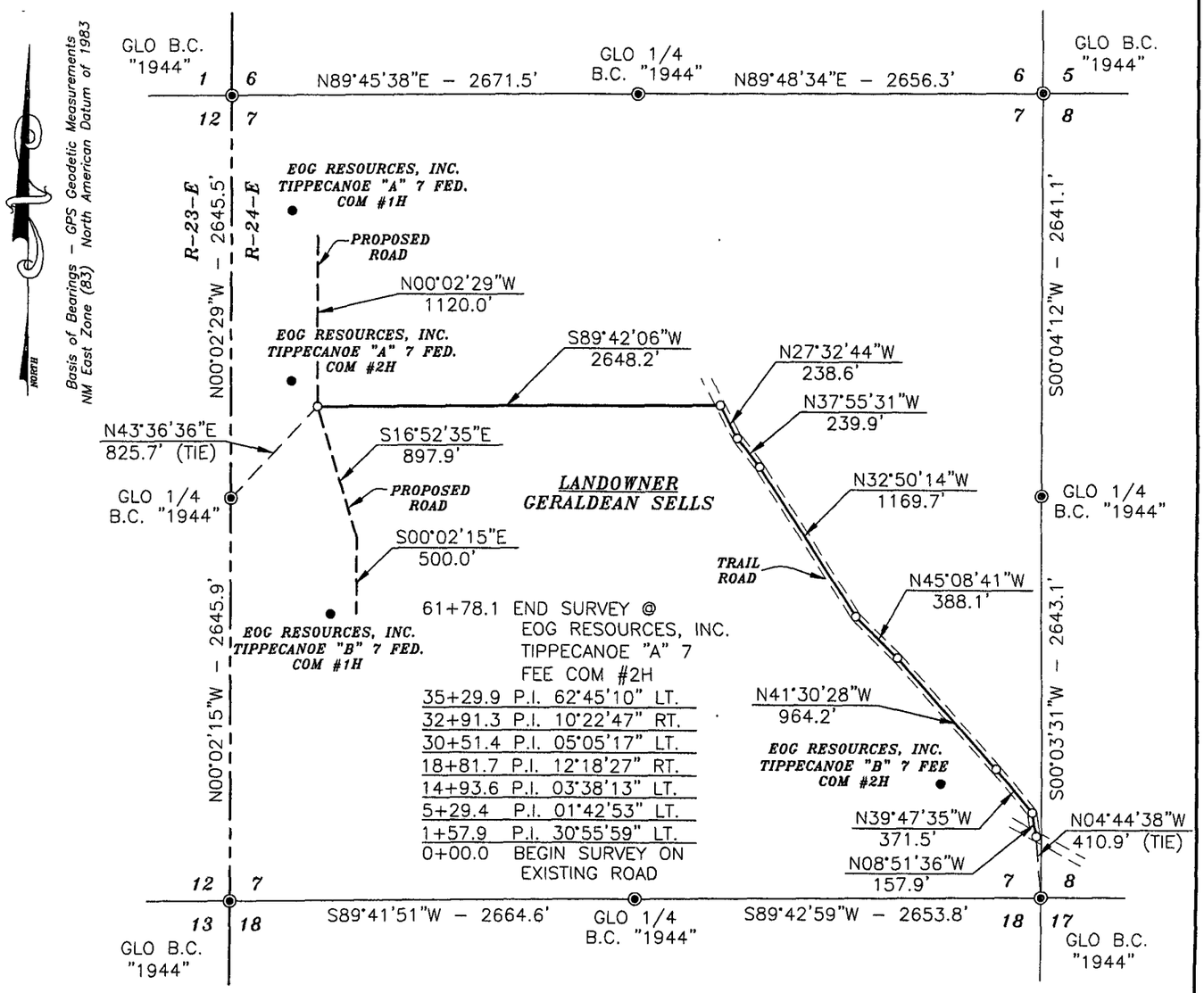
- Section 7, T17S - R24E, N.M.P.M.

Eddy County, NM



SECTION 7, TOWNSHIP 17 SOUTH, RANGE 24 EAST, N.M.P.M.,
EDDY COUNTY NEW MEXICO

Exhibit 6



DESCRIPTION

SURVEY FOR A ROAD EASEMENT CROSSING GERALDEAN SELLS LAND IN SECTION 7, TOWNSHIP 17 SOUTH, RANGE 24 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT WHICH LIES N04°44'38"W – 410.9 FEET FROM THE SOUTHEAST CORNER OF SAID SECTION 7; THEN N08°51'36"W – 157.9 FEET; THEN N39°47'35"W – 371.5 FEET; THEN N41°30'28"W – 964.2 FEET; THEN N45°08'41"W – 388.1 FEET; THEN N32°50'14"W – 1169.7 FEET; THEN N37°55'31"W – 239.9 FEET; THEN N27°32'44"W – 238.6 FEET; THEN S89°42'06"W – 2648.2 FEET TO A POINT WHICH LIES N43°36'36"E – 825.7 FEET FROM THE WEST QUARTER CORNER OF SAID SECTION 7.

TOTAL LENGTH EQUALS 6178.1 FEET OR 374.43 RODS.

TERRY J. ASEL NEW MEXICO 15079 REGISTERED PROFESSIONAL LAND SURVEYOR

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 1/30/2009

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

1000' 0 1000' 2000' FEET

SCALE: 1"=1000'

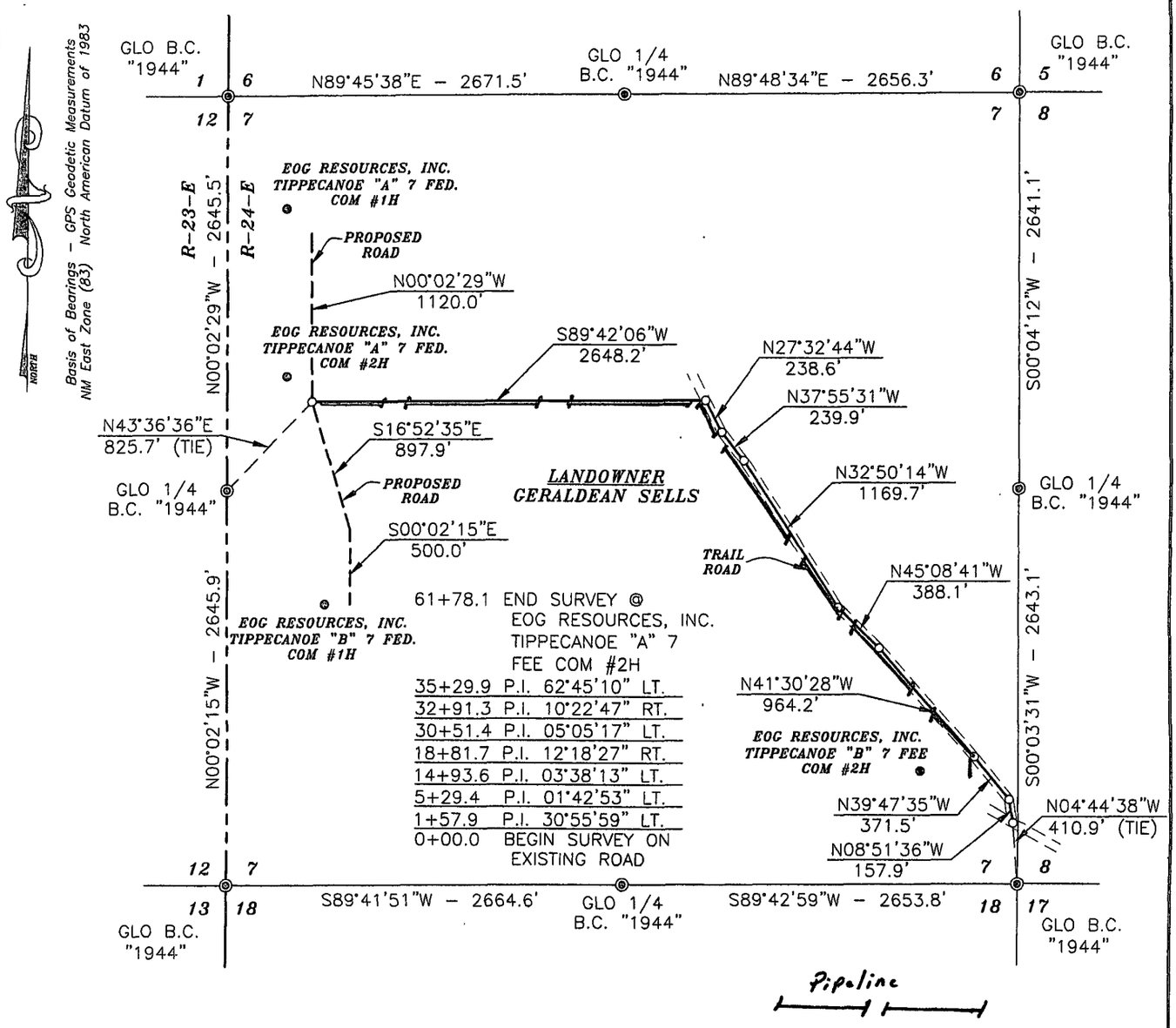
EOG RESOURCES, INC.

SURVEY FOR A ROAD EASEMENT IN SECTION 7, TOWNSHIP 17 SOUTH, RANGE 24 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO

Survey Date: 01/15/09	Sheet 1 of 1 Sheets		
W.O. Number: 090115RD	Drawn By: KA		
Date: 01/26/09	090115RD.DWG	Scale:1"=1000'	

SECTION 7, TOWNSHIP 17 SOUTH, RANGE 24 EAST, N.M.P.M.,
EDDY COUNTY NEW MEXICO

Exhibit 7



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Terry J. Asel 1/30/2009

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

1000' 0 1000' 2000' FEET

SCALE: 1"=1000'

EOG RESOURCES, INC.

SURVEY FOR A ROAD EASEMENT IN SECTION 7, TOWNSHIP 17 SOUTH, RANGE 24 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO

Survey Date: 01/15/09	Sheet 1 of 1 Sheets	
W.O. Number: 090115RD	Drawn By: KA	
Date: 01/26/09	090115RD.DWG	Scale:1"=1000'

Permit Information:

Well Name: Tippecanoe A 7 Fed Com #2H

Location:
SL 1880' FNL & 400' FWL, Section 7, T-17-S, R-24-E, Eddy Co., N.M.
BHL 1880' FNL & 660' FEL, Section 7, T-17-S, R-24-E, Eddy Co., N.M.

Casing Program:

Casing	Setting Depth	Hole Size	Casing Size	Casing Weight	Casing Grade	Desired TOC
Surface	1,000'	12-1/4"	8-5/8"	32#	J-55	Surface
Production	8,585'	7-7/8"	5 ½"	17#	N-80	Surface

Cement Program:

Depth	No. Sacks	Slurries:
1,000'	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
8,585'	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 – 1,000'	Fresh - Gel	8.6-8.8	28-34	N/c
1,000' – 4,000'	Cut Brine	8.8-9.2	28-34	N/c
4,000' – 4,900'	Cut Brine	8.8-9.2	28-34	10-15
4,043' – 8,585'	Polymer (Lateral)	8.8-9.4	35-45	10-20

EOG RESOURCES, INC.
TIPPECANOE A 7 FED COM 2H

DRILLING PROGRAM

1. GEOLOGIC NAME OF SURFACE FORMATION:

Quaternary Alluvium	0-200

2. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

San Andres	470'
Glorieta	1,550'
Tubb	2,880'
Abo Shale	3,540'
Wolfcamp Pay	**4,500'**

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

Quanterary Alluvium	0- 200'	Fresh Water
San Andres	470'	~~Oil~~ WATER
Glorieta	1,550'	Oil/Gas
Tubb	2,880'	Oil/Gas
Abo/Wolfcamp Pay	4,500'	Gas

No other Formations are expected to give up oil, gas or fresh water in measurable quantities. Surface fresh waters will be protected by 8.625" casing at 1,000' and circulating cement back to surface.

4. CASING PROGRAM-NEW

Hole	Interval	OD Csg	Weight	Grade	Conn.	Collapse Design Factor	Burst Design Factor	Tension Design Factor
12.250"	0-1,000'	8.625"	~~24~~ 32#	J-55	LT&C	5.69	2.62	7.78
7.875"	0-8,585'	5.5"	17#	N-80	LT&C	3.06	1.29	2.37

per Operator

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

5.50" Production:	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.

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 fresh water, cut brine, and polymer mud systems. The applicable depths and properties of these systems are as follows:

		Wt	Vis/	Waterloss
Depth	Type	(PPG)	(sec)	(cc)
0-1,000'	Fresh – Gel	8.6-8.8	28-34	N/c
1,000'-4,000'	Cut Brine	8.8-9.2	28-34	N/c
4,000'-4,900'	Cut Brine	8.6-9.2	28-34	10-15
4,043'-8,585'	Polymer (Lateral)	8.8-9.4	35-45	10-25

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.

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:

Electric logging will consist of GR-Dual Laterlog and GR-Compensated Density-Neutron from +/-1,000' 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 (BHP) 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.

EOG Resources Inc
Planning Report

Database:	EDM	**Local Co-ordinate Reference:**	Well Tippecanoe A 7 Fed Com #2H
Company:	Midland - New Mexico	**TVD Reference:**	WELL @ 3878 70ft (Original Well Elev)
Project:	Thames	**MD Reference:**	WELL @ 3878.70ft (Original Well Elev)
Site:	Tippecanoe A 7 Fed Com #2H	**North Reference:**	Grid
Well:	Tippecanoe A 7 Fed Com #2H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Tippecanoe A 7 Fed Com #2H		
Design:	Original Plan		

Project Thames

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

Site Tippecanoe A 7 Fed Com #2H

Site Position:		**Northing:**	673,729.90ft	**Latitude:**	32° 51' 6 491 N
From:	Map	**Easting:**	407,226.30ft	**Longitude:**	104° 38' 7.562 W
Position Uncertainty:	0.00 ft	**Slot Radius:**	"	**Grid Convergence:**	-0 16 deg

Well Tippecanoe A 7 Fed Com #2H

Well Position	**+N/-S**	0.00 ft	**Northing:**	673,729.90 ft	**Latitude:**	32° 51' 6 491 N
	+E/-W	0.00 ft	**Easting:**	407,226.30 ft	**Longitude:**	104° 38' 7.562 W
Position Uncertainty		0.00 ft	**Wellhead Elevation:**	ft	**Ground Level:**	3,859.70ft

Wellbore Tippecanoe A 7 Fed Com #2H

Magnetics	Model Name	Sample Date	Declination (deg)	Dip Angle (deg)	Field Strength (nT)
	IGRF2005	2/2/2009	8.39	60.61	49,057

Design Original Plan

Audit Notes:

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

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (deg)
	0.00	0.00	0.00	89.78

Plan Sections

Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (?/100ft)	Build Rate (?/100ft)	Turn Rate (?/100ft)	TFO (deg)	Target
0 00	0.00	0.00	0.00	0.00	0 00	0.00	0.00	0.00	0.00	
4,043.00	0.00	0.00	4,043.00	0 00	0 00	0.00	0.00	0.00	0.00	
4,783.75	88.00	89.78	4,525.00	1.79	465 46	11.88	11.88	0.00	89.78	
4,784.11	88.01	89.78	4,525.01	1 79	465.82	3.00	2.77	1.16	22.63	
8,584.46	88.01	89.78	4,656.99	16.10	4,263 85	0.00	0.00	0.00	0.00	
8,584 82	88 00	89.78	4,657.00	16.10	4,264.21	3.00	-2.77	-1.16	-157.37	BHL (Tipp A #2H)

Database:	EDM	**Local Co-ordinate Reference:**	Well Tippecanoe A 7 Fed Com #2H
Company:	Midland - New Mexico	**TVD Reference:**	WELL @ 3878.70ft (Original Well Elev)
Project:	Thames	**MD Reference:**	WELL @ 3878.70ft (Original Well Elev)
Site:	Tippecanoe A 7 Fed Com #2H	**North Reference:**	Grid
Well:	Tippecanoe A 7 Fed Com #2H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Tippecanoe A 7 Fed Com #2H		
Design:	Original Plan		

Planned Survey

Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (?/100ft)	Build Rate (?/100ft)	Turn Rate (?/100ft)
0.00	0.00	0.00	0 00	0.00	0.00	0.00	0 00	0 00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0 00	0.00	0.00	0.00
200 00	0 00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0 00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400 00	0.00	0.00	400 00	0.00	0.00	0.00	0 00	0.00	0 00
500.00	0.00	0.00	500 00	0.00	0.00	0.00	0.00	0.00	0 00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0 00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0 00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100 00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0 00	0 00	1,300.00	0.00	0.00	0.00	0 00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0 00	0.00	0.00	0.00	0 00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0 00	0.00	0.00	0.00	0 00
1,600 00	0.00	0.00	1,600.00	0.00	0 00	0.00	0.00	0 00	0 00
1,700 00	0.00	0.00	1,700.00	0.00	0 00	0 00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900 00	0.00	0.00	0 00	0.00	0.00	0.00
2,000.00	0 00	0 00	2,000 00	0.00	0.00	0.00	0.00	0.00	0 00
2,100.00	0.00	0.00	2,100 00	0.00	0.00	0.00	0.00	0.00	0 00
2,200.00	0 00	0 00	2,200.00	0 00	0.00	0.00	0.00	0 00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0 00	0.00	0.00
2,400.00	0 00	0 00	2,400.00	0 00	0.00	0.00	0 00	0 00	0.00
2,500.00	0.00	0.00	2,500 00	0.00	0.00	0.00	0 00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0 00	0.00	0.00
2,700.00	0 00	0 00	2,700.00	0 00	0 00	0.00	0.00	0.00	0.00
2,800.00	0.00	0 00	2,800.00	0.00	0.00	0 00	0.00	0 00	0.00
2,900 00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000 00	0.00	0.00	0 00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100 00	0.00	0.00	0.00	0.00	0.00	0 00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0 00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0 00	0.00
3,500.00	0.00	0.00	3,500.00	0 00	0.00	0 00	0 00	0.00	0.00
3,600 00	0.00	0.00	3,600.00	0.00	0.00	0.00	0 00	0.00	0 00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0 00	0.00	0 00	0.00
3,800.00	0 00	0 00	3,800.00	0.00	0.00	0.00	0 00	0.00	0 00
3,900.00	0.00	0 00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000 00	0.00	0.00	0.00	0.00	0.00	0.00
4,043.00	0.00	0.00	4,043.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	6.77	89.78	4,099.87	0.01	3.36	3.36	11.88	11.88	0.00
4,200 00	18.65	89.78	4,197 24	0.10	25 33	25 33	11.88	11.88	0.00
4,300.00	30.53	89.78	4,288.01	0.26	66.87	66.87	11.88	11.88	0 00
4,400.00	42.41	89.78	4,368.28	0 48	126.20	126.20	11.88	11.88	0.00
4,500.00	54.29	89 78	4,434.62	0.77	200.79	200.79	11 88	11.88	0.00
4,584.01	64.27	89.78	4,477.48	1.05	272.92	272.92	11.88	11.88	0.00
PP (Tipp A #2H)									
4,600.00	66.17	89.78	4,484.18	1.10	287.44	287.44	11.88	11 88	0.00
4,700.00	78.05	89.78	4,514 84	1.47	382.43	382.44	11.88	11.88	0.00
4,783.75	88.00	89.78	4,525 00	1.79	465.46	465.46	11.88	11.88	0.00
4,784.11	88.01	89.78	4,525.01	1.79	465.82	465.82	3.00	2.77	1 16

Database:	EDM	**Local Co-ordinate Reference:**	Well Tippecanoe A 7 Fed Com #2H
Company:	Midland - New Mexico	**TVD Reference:**	WELL @ 3878 70ft (Original Well Elev)
Project:	Thames	**MD Reference:**	WELL @ 3878.70ft (Original Well Elev)
Site:	Tippecanoe A 7 Fed Com #2H	**North Reference:**	Grid
Well:	Tippecanoe A 7 Fed Com #2H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Tippecanoe A 7 Fed Com #2H		
Design:	Original Plan		

Planned Survey

Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (?/100ft)	Build Rate (?/100ft)	Turn Rate (?/100ft)
4,800.00	88 01	89.78	4,525.56	1.85	481.70	481.70	0.00	0 00	0.00
4,900.00	88.01	89.78	4,529 04	2.22	581 64	581 64	0.00	0 00	0.00
5,000 00	88.01	89.78	4,532.51	2.60	681 58	681.58	0.00	0 00	0.00
5,100.00	88.01	89.78	4,535.98	2.98	781.52	781.52	0.00	0.00	0.00
5,200 00	88.01	89.78	4,539.46	3.35	881 45	881 46	0.00	0.00	0.00
5,300.00	88 01	89.78	4,542 93	3.73	981.39	981.40	0 00	0.00	0 00
5,400.00	88.01	89.78	4,546 40	4.11	1,081.33	1,081.34	0.00	0.00	0.00
5,500.00	88.01	89.78	4,549.87	4.48	1,181 27	1,181.28	0.00	0.00	0.00
5,600.00	88.01	89.78	4,553.35	4.86	1,281.21	1,281.22	0.00	0.00	0.00
5,700.00	88.01	89.78	4,556.82	5.24	1,381.15	1,381.16	0.00	0.00	0.00
5,800 00	88.01	89.78	4,560.29	5.61	1,481 09	1,481.10	0 00	0.00	0 00
5,900 00	88.01	89.78	4,563.76	5.99	1,581.03	1,581.04	0.00	0.00	0.00
6,000.00	88.01	89.78	4,567.24	6.37	1,680.97	1,680.98	0.00	0.00	0.00
6,100.00	88.01	89.78	4,570.71	6.74	1,780.91	1,780.92	0.00	0 00	0.00
6,200 00	88.01	89 78	4,574.18	7.12	1,880.84	1,880.86	0.00	0.00	0 00
6,300.00	88 01	89.78	4,577.65	7.50	1,980.78	1,980.80	0.00	0.00	0.00
6,400.00	88.01	89 78	4,581.13	7.87	2,080.72	2,080.74	0.00	0 00	0.00
6,500.00	88 01	89.78	4,584.60	8.25	2,180 66	2,180.68	0 00	0.00	0.00
6,600.00	88 01	89.78	4,588.07	8.63	2,280.60	2,280.62	0.00	0.00	0.00
6,700.00	88 01	89.78	4,591.55	9.00	2,380.54	2,380.56	0.00	0.00	0 00
6,800 00	88.01	89.78	4,595.02	9.38	2,480.48	2,480.50	0.00	0.00	0 00
6,900.00	88.01	89.78	4,598.49	9.76	2,580.42	2,580.44	0.00	0.00	0.00
7,000.00	88.01	89.78	4,601.96	10.13	2,680.36	2,680.38	0.00	0.00	0.00
7,100.00	88.01	89.78	4,605.44	10.51	2,780.29	2,780.31	0.00	0.00	0.00
7,200.00	88.01	89.78	4,608.91	10.89	2,880.23	2,880.25	0.00	0.00	0.00
7,300.00	88.01	89.78	4,612 38	11 26	2,980.17	2,980.19	0.00	0.00	0.00
7,400.00	88 01	89.78	4,615 85	11.64	3,080.11	3,080.13	0.00	0.00	0.00
7,500.00	88 01	89.78	4,619.33	12.02	3,180.05	3,180 07	0 00	0 00	0.00
7,600.00	88.01	89.78	4,622.80	12.39	3,279.99	3,280 01	0.00	0 00	0.00
7,700.00	88.01	89.78	4,626.27	12.77	3,379 93	3,379.95	0 00	0.00	0.00
7,800.00	88.01	89.78	4,629.75	13 14	3,479.87	3,479.89	0.00	0.00	0.00
7,900.00	88.01	89.78	4,633 22	13.52	3,579.81	3,579.83	0.00	0.00	0 00
8,000.00	88.01	89 78	4,636.69	13.90	3,679.75	3,679.77	0.00	0.00	0.00
8,100.00	88 01	89.78	4,640.16	14 27	3,779.68	3,779.71	0 00	0.00	0.00
8,200.00	88 01	89.78	4,643.64	14 65	3,879.62	3,879 65	0.00	0.00	0.00
8,300.00	88 01	89.78	4,647.11	15.03	3,979.56	3,979 59	0.00	0 00	0.00
8,400.00	88.01	89.78	4,650.58	15.40	4,079.50	4,079.53	0.00	0 00	0.00
8,500.00	88.01	89 78	4,654.05	15 78	4,179.44	4,179.47	0.00	0.00	0.00
8,584 46	88 01	89.78	4,656.99	16.10	4,263.85	4,263.88	0.00	0.00	0.00
8,584.82	88.00	89 78	4,657.00	16 10	4,264.21	4,264.24	3.00	-2.77	-1 16
BHL (Tipp A #2H)									

Database:	EDM	**Local Co-ordinate Reference:**	Well Tippecanoe A 7 Fed Com #2H
Company:	Midland - New Mexico	**TVD Reference:**	WELL @ 3878 70ft (Original Well Elev)
Project:	Thames	**MD Reference:**	WELL @ 3878.70ft (Original Well Elev)
Site:	Tippecanoe A 7 Fed Com #2H	**North Reference:**	Grid
Well:	Tippecanoe A 7 Fed Com #2H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Tippecanoe A 7 Fed Com #2H		
Design:	Original Plan		

Targets

Target Name - hit/miss target - Shape	Dip Angle (deg)	Dip Dir. (deg)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
PP (Tipp A #2H) - plan misses target center by 25.96ft at 4584.01ft MD (4477.48 TVD, 1.05 N, 272.92 E) - Point	0.00	0.00	4,500.00	1.10	260.00	673,731.00	407,486.30	32° 51' 6.509 N	104° 38' 4.514 W
BHL (Tipp A #2H) - plan hits target center - Point	0.00	0.00	4,657.00	16.10	4,264.21	673,746 00	411,490.50	32° 51' 6.768 N	104° 37' 17.575 W

WELL DETAILS: Tippecanoe A 7 Fed Com #2H

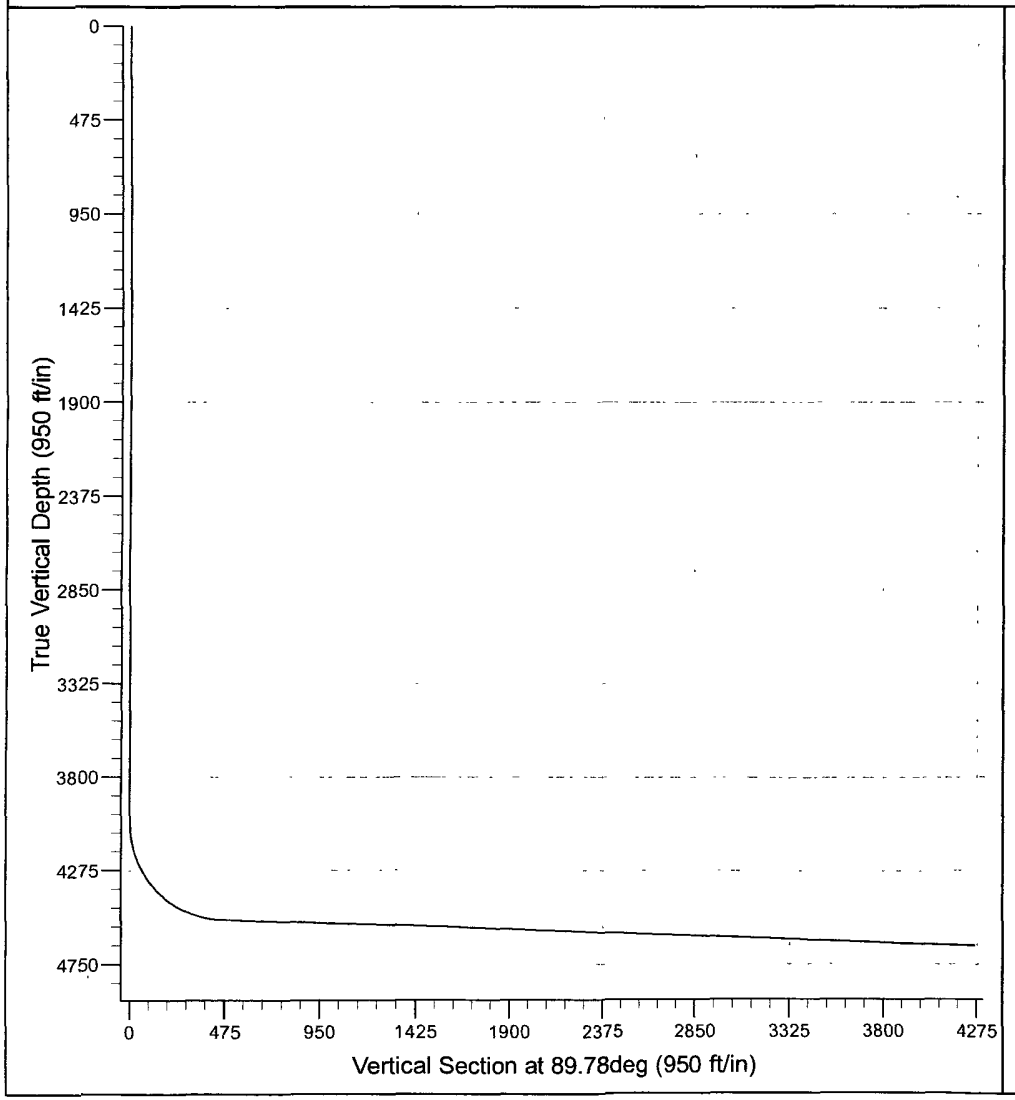
Ground Level: 3859.70

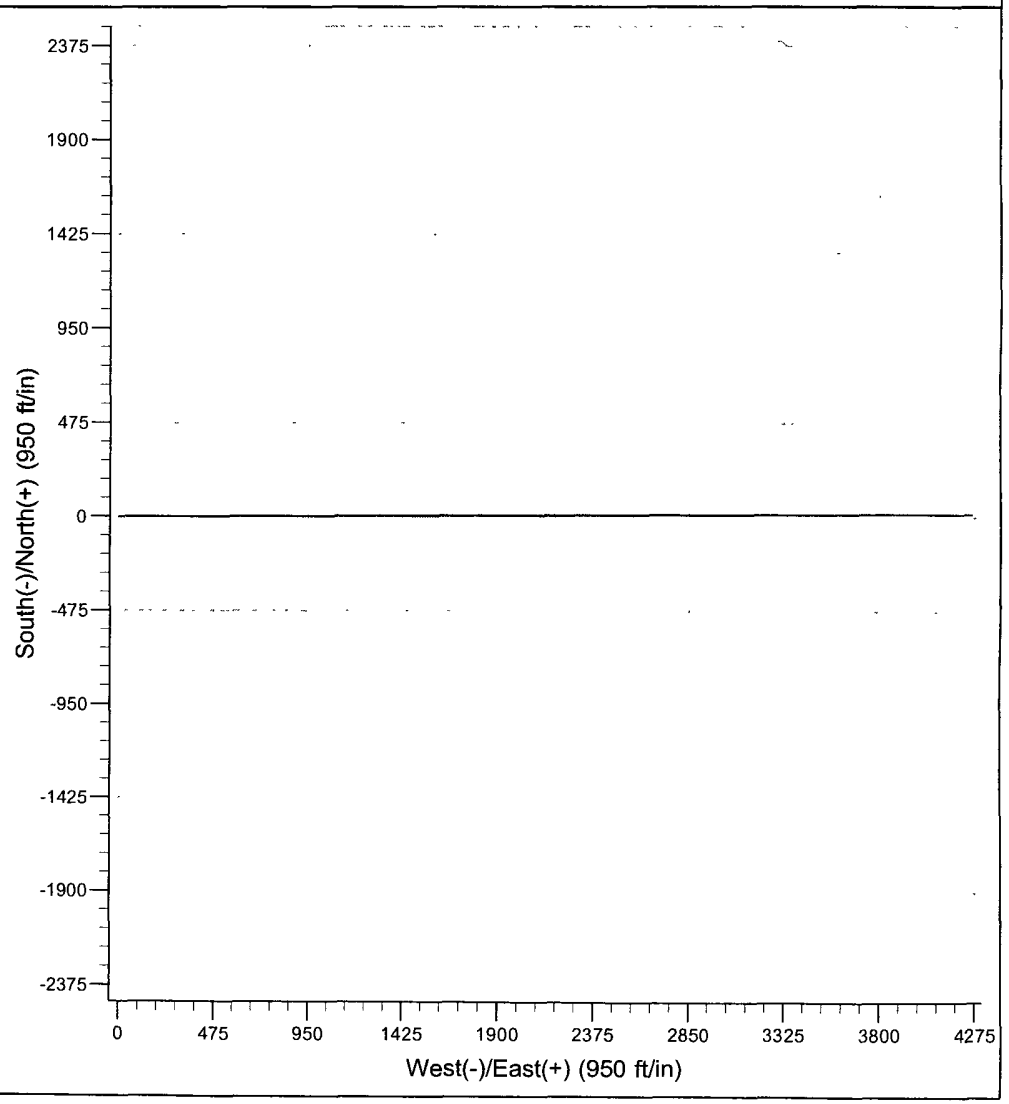
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	673729.90	407226.30	32° 51' 6.491 N	104° 38' 7.562 W	

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	4043.00	0.00	0.00	4043.00	0.00	0.00	0.00	0.00	0.00
3	4783.75	88.00	89.78	4525.00	1.79	465.46	11.88	89.78	465.46
4	4784.11	88.01	89.78	4525.01	1.79	465.82	3.00	22.63	465.82
5	8584.46	88.01	89.78	4656.99	16.10	4263.85	0.00	0.00	4263.88
6	8584.82	88.00	89.78	4657.00	16.10	4264.21	3.00	-157.37	4264.24

Target: BHL (Tippecanoe A 7 Fed Com #2H)

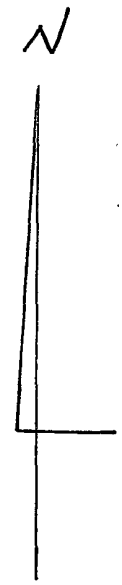




PRODUCTION FACILITY LAYOUT

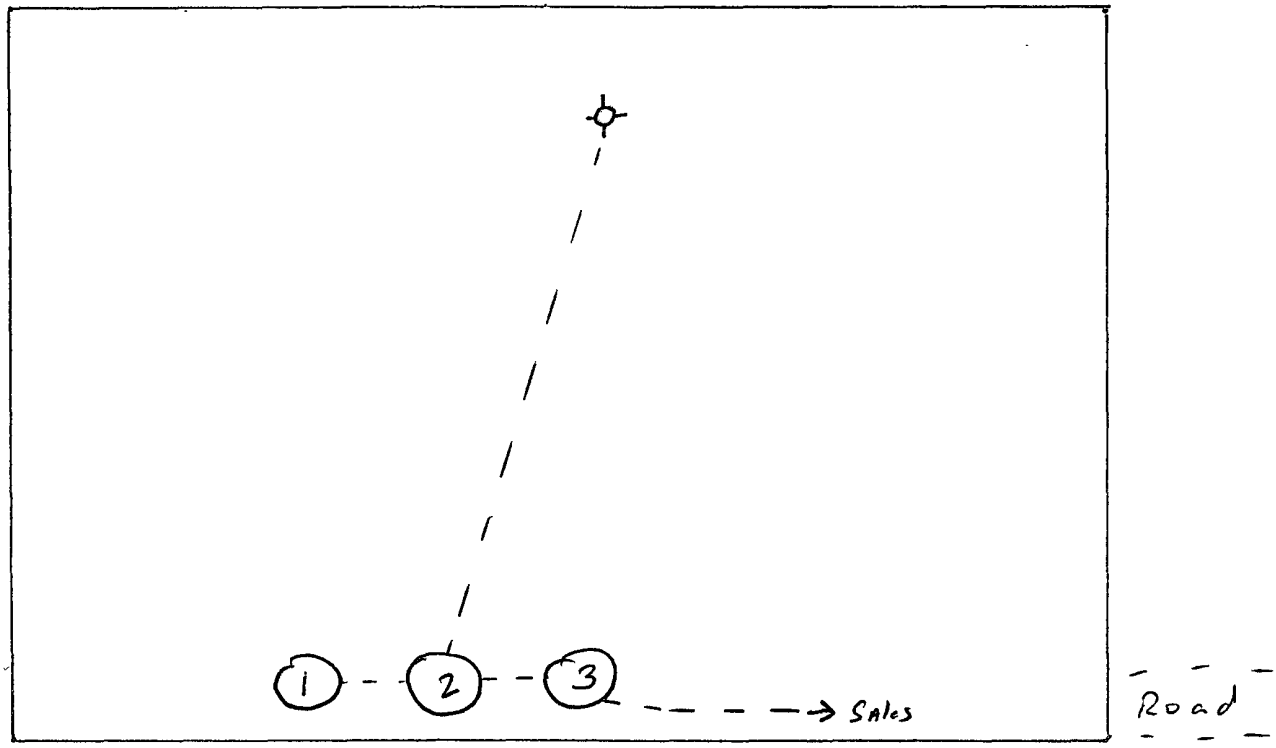
Exhibit 5

WELL NAME: Tippecanoe A 7 Fed 6m 2H



CLOSED LOOP EQUIPMENT

Closed LOOP EQUIPMENT

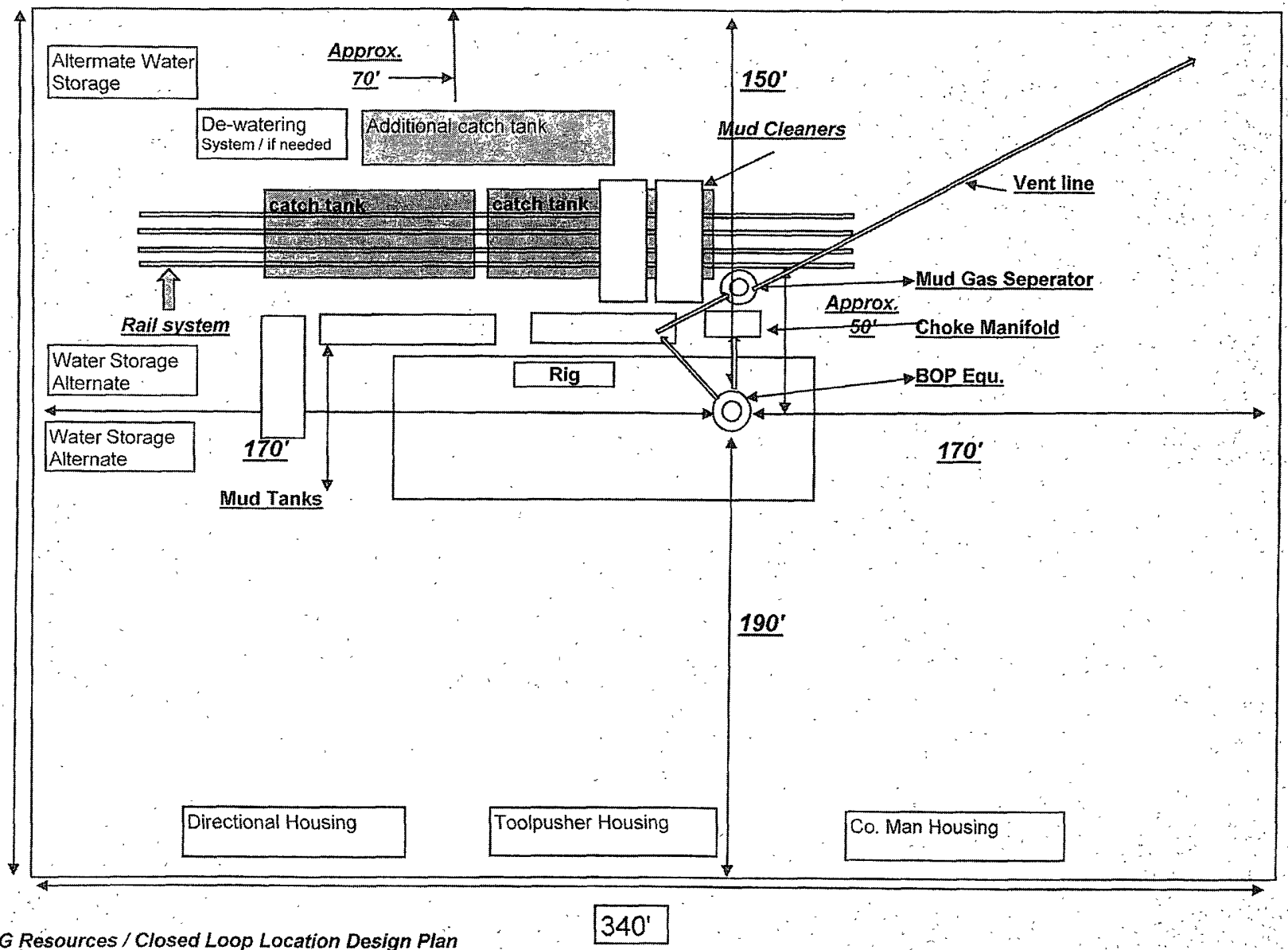


1. Tank
2. Separator
3. Meter

"NOT TO SCALE"

Exhibit 4

Triprime A 7 Fed Com 2H



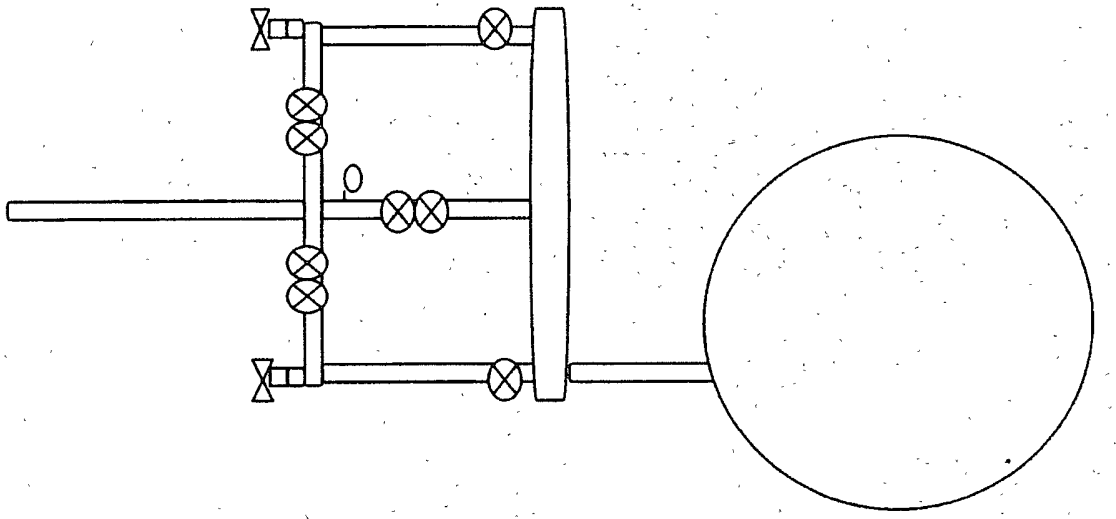
N

EOG Resources / Closed Loop Location Design Plan

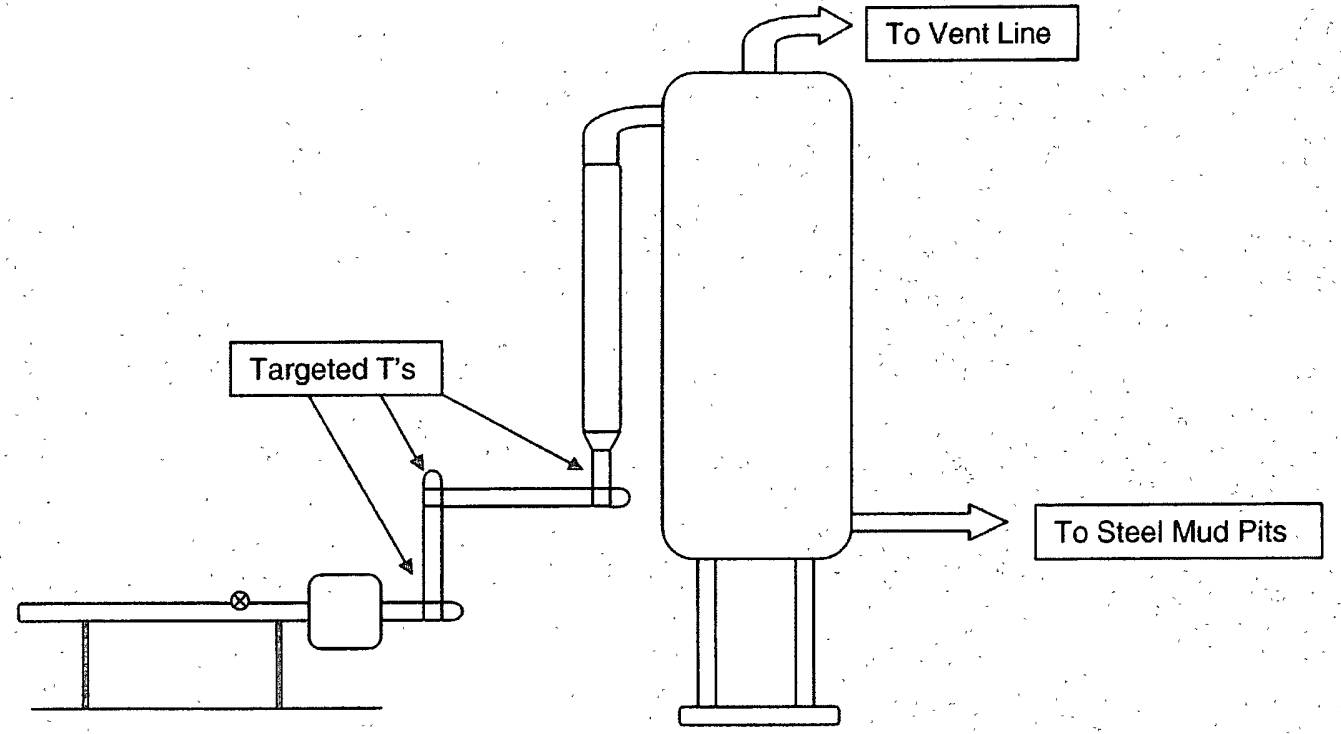
Not to scale

6/30/2008

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



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



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, 3000 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 3000 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.

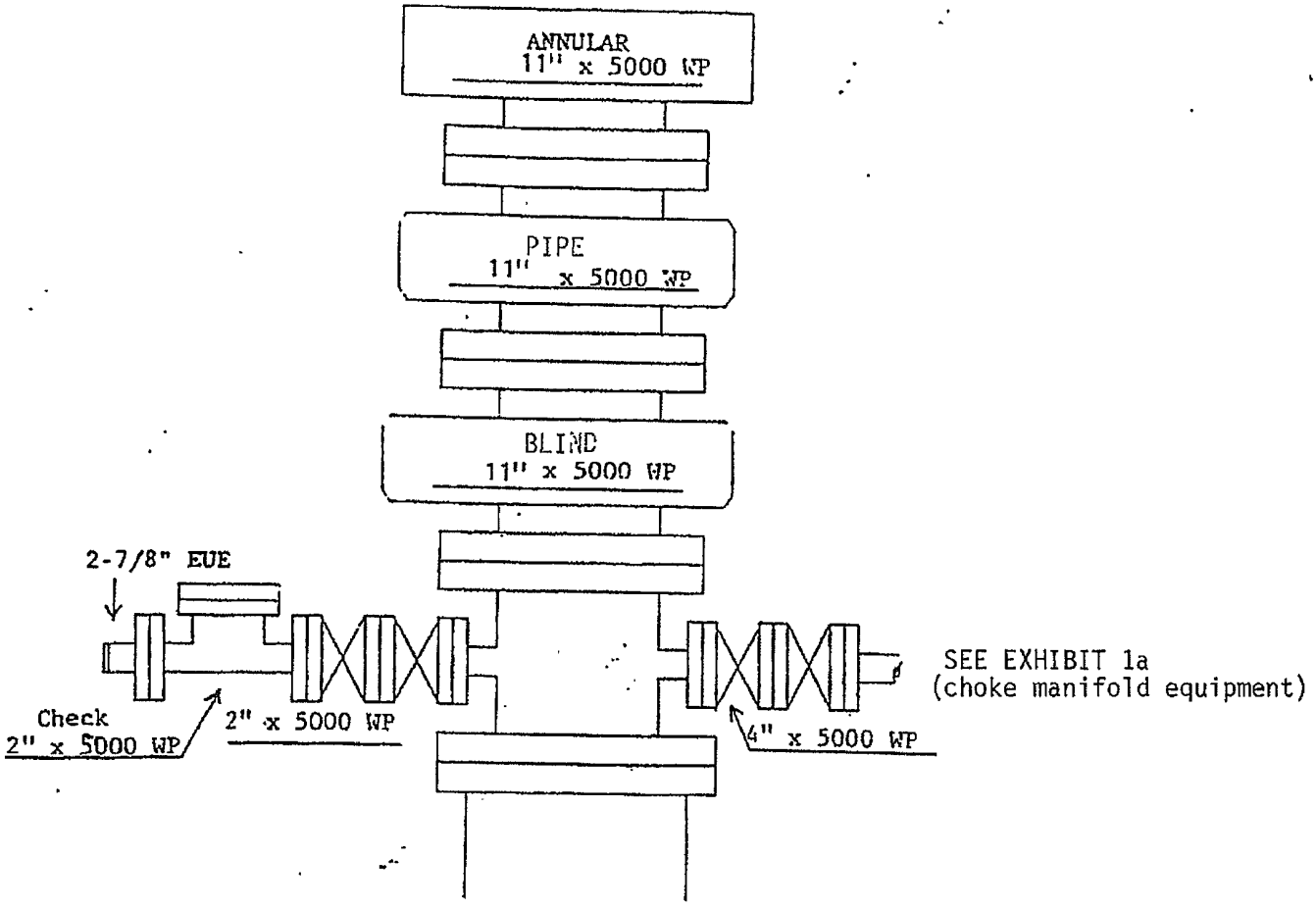
9. Blow out preventer control to be located as close to driller's position as feasible.

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.

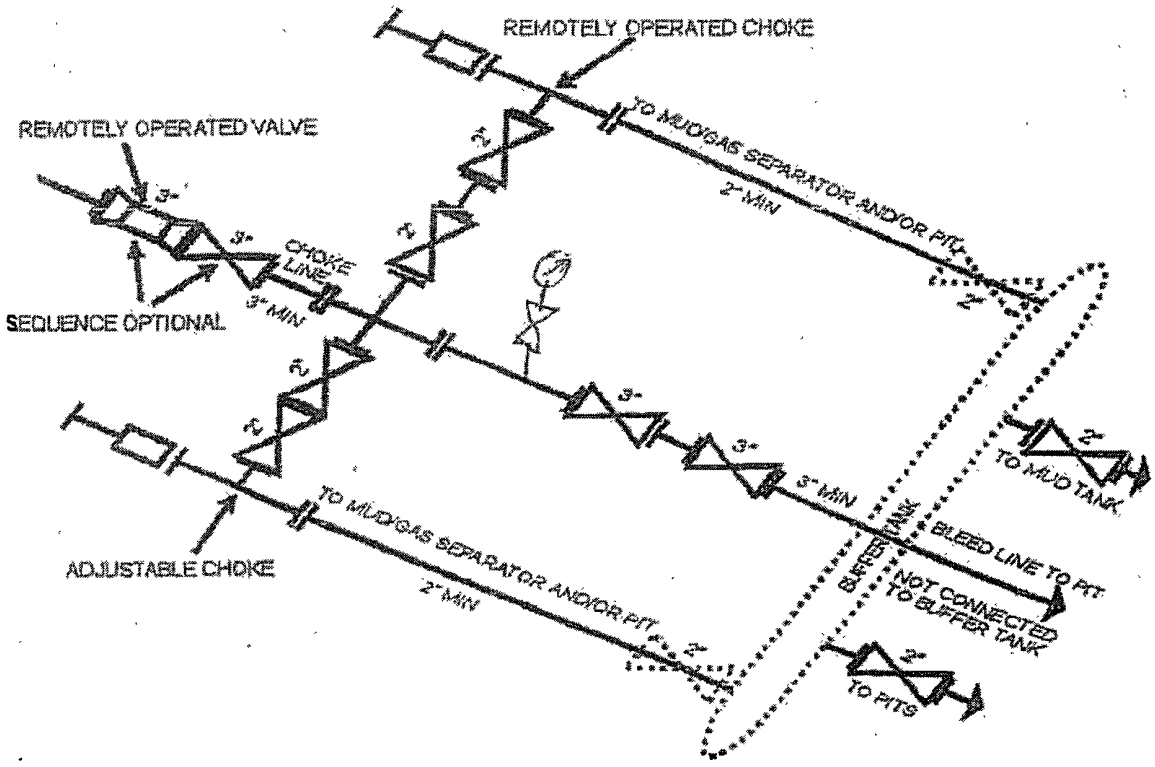
EXHIBIT 1

EOG Resources, Inc.

Tippecanoe A 7 Fed Com 2H



WELL NAME: Tippecanoe A 7 Fed Com 2H Exhibit 1a



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]

eog resources

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

February 2, 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 H_2S Contingency Plan for the Tippecanoe A 7 Fed Com #2H. The current plan is to complete this well in the Wolfcamp, which is sweet, and I do not anticipate encountering any H_2S bearing formations during drilling operations.

Sincerely,

Jason LaGrega
Drilling Engineer

EOG RESOURCES, INC.
TIPPECANOE A 7 FED COM 2H

SURFACE USE PLAN OF OPERATION

SHL: 1880' FNL & 400' FWL, Unit E, Section 7, T17S-R24E, N.M.P.M., Eddy, NM
BHL: 1880' FNL & 660' FEL, Unit H, Section 7, T17S-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 Exhibits 2, 2a & 6
c. Directions to Locations: Beginning in Artesia, NM, at the intersection of Hwy #82 and Hwy #285, go west on Hwy #82 for 12.4 miles, turn right and go west on lease road for 0.6 miles, turn right and go northwest along trail road for 0.7 miles, turn left and go west for 0.5 miles to location.

2. NEW OR RECONSTRUCTED ACCESS ROAD:

a. The well site layout, Exhibit 2a shows the layout. The proposed access road will be located as identified on Exhibit 6.
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. Cattleguards will be set where fences are cut. 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, a production facility will be constructed on location consisting of a meter, separator and tank as identified on Exhibit 5.
b. A buried pipeline will be located as identified on Exhibit 7. Pipeline will adhere to API standards.
c. If the well is productive, rehabilitation plans are as follows:
   i. Within 60 days after drilling and completion of the well, the location shall be reduced as determined by operator to the minimum area necessary to safely and effectively operate the well.
   ii. 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.

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 & 6. 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 shall be secured. If poly pipeline is used to transport fresh water to the location, proper authorization shall be secured by the contractor.

6. CONSTRUCTION MATERIALS

All caliche utilized for the drilling pad and proposed access road shall be obtained from an existing BLM approved pit or, the fee surface owner or from prevailing deposits found under the location. All roads shall be constructed of rolled and compacted caliche. Operator 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
   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 well site layout, dimensions of the pad layout and living facilities.
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.
c. The area where the catch tanks are placed shall be reclaimed and seeded per BLM requirements.

10. PLANS FOR SURFACE RECLAMATION:

a. After concluding the drilling and/or completion operations, if the well is found non-commercial, the caliche shall be removed from the pad and transported to the original caliche pit or used for other drilling locations. The road shall be reclaimed as directed by the BLM. The catch tank area shall be broken out and leveled after drying to a condition where these are feasible. The original topsoil shall again be returned to the pad and contoured, as close as possible, to the original topography.
b. The location and road shall be reclaimed as recommended by the BLM.
c. If the well is deemed commercially productive, the catch tank area shall be restored as described in 10(a) within 120 days subsequent to the completion date. Caliche from areas of the pad site not required for operations shall be reclaimed. The original top soil shall be returned to the area of the drill pad not necessary to operate the well. These unused areas of the drill pad shall be contoured, as close as possible, to match the original topography.

11. SURFACE OWNERSHIP

The surface is owned by the Geraldean Sells trustee of the Geraldean Sells Revocable Trust. The surface is multiple use with the primary uses of the region for the grazing of livestock and the production of oil and gas. The proposed road routes and surface location will be restored as directed by the BLM.

Applicant has entered into a written surface use agreement with the surface owner.

Surface Owner:
Ms. Geraldean Sells
Trustee of the Geraldean Sells Revocable Trust
2220 Calle de Suenos
Las Cruces, NM 88001

12. OTHER INFORMATION:

a. The area surrounding the well is grassland. The topsoil is sandy & rocky in nature. The vegetation is moderately sparse with native prairie grass and cactus. No wildlife was observed but it is likely that deer, rabbits, coyotes, rodents and birds transverse the area.
b. There are not dwellings within 1 mile of location.
c. There is no permanent or live water within 1 mile 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

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. Jason LaGrega
Division Drilling Engineer
EOG Resources, Inc.
P.O. Box 2267
Midland, TX 79702
(432) 686-3633 Office
(432) 894-1217 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 3rd day of February 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: Donny G. Glanton

OPERATING AND MAINTENANCE PLAN – CLOSED LOOP SYSTEM

19.15.17.12 OPERATIONAL REQUIREMENTS:

A. General specifications. An operator shall maintain and operate a pit, closed-loop system, below-grade tank or sump in accordance with the following requirements.

(1) The operator shall operate and maintain a pit, closed-loop system, below-grade tank or sump to contain liquids and solids and maintain the integrity of the liner, liner system or secondary containment system, prevent contamination of fresh water and protect public health and the environment.

Operator shall operate and maintain a closed loop system.

(2) The operator shall recycle, reuse or reclaim all drilling fluids in a manner that prevents the contamination of fresh water and protects public health and the environment.

Operator shall recycle, reuse or reclaim all drilling fluids used. Excess or unused fluid shall be disposed of at division approved facilities.

(3) The operator shall not discharge into or store any hazardous waste in a pit, closed-loop system, below-grade tank or sump.

Operator shall not knowingly discharge hazardous waste into the closed loop system.

(4) If the integrity of the pit liner is compromised, or if any penetration of the liner occurs above the liquid's surface, then the operator shall notify the appropriate division district office within 48 hours of the discovery and repair the damage or replace the liner

No Pit liner. Closed loop system.

(5) If a lined pit develops a leak, or if any penetration of the liner occurs below the liquid's surface, then the operator shall remove all liquid above the damage or leak line from the pit within 48 hours and repair the damage or replace the liner.

No Pit liner. Closed loop system. If a leak develops in any of the closed loop tanks, all liquid shall be removed from the effected tank within 48 hours and any damage shall be repaired prior to putting the tank back in service.

(6) The operator shall install a level measuring device in a lined pit containing fluids to monitor the level of the fluid surface, so that the operator may recognize unanticipated change in volume of fluids.

No pit. Closed loop system. Excess fluid shall be removed appropriately from the catch tanks.

(7) The injection or withdrawal of liquids from a lined pit shall be accomplished through a header, diverter or other hardware that prevents damage to the liner by erosion, fluid jets or impact from installation and removal of hoses or pipes.

No pit. Closed loop system. Excess fluid shall be removed appropriately from the catch tanks using a re-circulating pump or vacuum trucks.

(8) The operator shall operate and install a pit, below-grade tank or sump to prevent the collection of surface water run-on.

Operator shall berm or collect surface water run- on and dispose of at a division approved facility.

(9) The operator shall install, or maintain on site, an oil absorbent boom or other device to contain and remove oil from a pit's surface.

Operator shall install a skimmer system on catch tanks, circulating tanks and over-flow tanks as needed to collect oil.

Closure Plan for Closed Loop Drilling System

1. METHODS OF HANDLING WASTE MATERIALS

a. Drill cuttings shall be disposed of in steel cuttings bins (catch tanks) on the drilling pad (behind the steel mud tanks). The bin and cuttings shall be hauled to a division approved facility by an approved transporter. At the facility, the cuttings shall be removed from the bin and the bin shall be returned to the drilling site for reuse, moved to the next drilling site or returned to the provider.

b. Remaining drilling fluids shall be hauled off by approved transports to a division approved disposal facility. Water produced during completion shall be put in storage tanks and disposed of at a division approved facility. Oil and condensate produced shall be put in a storage tank and sold or put in a sales pipeline.

2. RECLAMATION

a. Within 60 days after the drilling and completion of the well, the location area shall be reduced as determined by operator to the minimum area necessary to safely and effectively operate the well. The reclaimed location area shall be substantially restored to the condition that existed prior to oil and gas operations.

PECOS DISTRICT
CONDITIONS OF APPROVAL

OPERATOR'S NAME:	EOG Resources Inc
LEASE NO.:	NM16780
WELL NAME & NO.:	2H Tippecanoe A 7 Fee Com
SURFACE HOLE FOOTAGE:	1880' FNL &400' FWL
BOTTOM HOLE FOOTAGE	1880' FNL &660' FEL
LOCATION:	Section 7, T. 17 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.

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)

Conditions-of-Approval for Drilling in Aplomado Falcon Habitat

The following well pad construction and reclamation measures will be implemented to provide for minimal long-term disturbance:

No Yuccas or trees over 5 feet in height will be damaged by vehicular use or any other activity associated with this project.

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.

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.

Well pad size will not exceed 300 ft. x 390 ft. (unless multiple wells are drilled from the same well pad). **All unused portions of the well pad associated with producing wells will be reclaimed** using the seed mixture below:

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

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.

A sign stating "This Pipeline Corridor is Closed to Vehicular Traffic Due to Reclamation Efforts in Progress" will be placed where the pipeline crosses any road (both sides of the road), and at the beginning and end of the pipeline route on BLM administered lands.

All roads associated with well development will not exceed 30 ft in width

Communitization Agreement

A Communitization Agreement covering the acreage dedicated to this well must be filed for approval with the BLM. The effective date of the agreement shall be prior to any sales. Operator to supply NMOCD order or description of pool which details the vertical and horizontal extent of pool to verify that requested communitization is within an approved and established pool.

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 to be stripped is approximately 8 inches in depth. The topsoil shall not be used to backfill the reserve pit and will be used for interim and final reclamation.

C. RESERVE PITS

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.

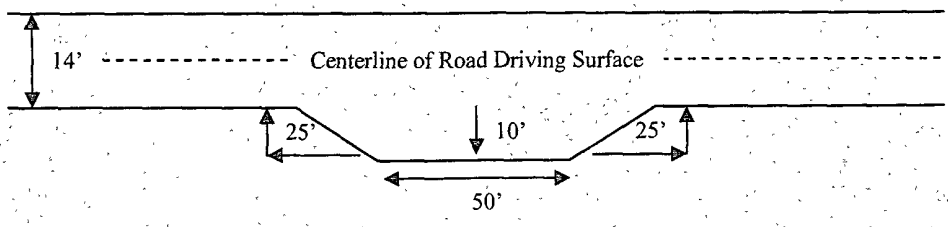
Crowning
Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2% (i.e., a 1" crown on a 14' wide road). The road shall conform to Figure 1; cross section and plans for typical road construction.

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:

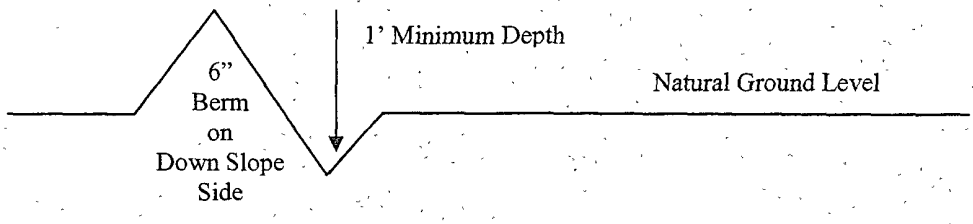
Standard Turnout – Plan View



Drainage
Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outsloping and insloping, 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.

Cross Section of a Typical 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 foot road with 4% road slope: $\frac{400'}{4\%} + 100' = 200'$ lead-off ditch interval

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

Cattleguards
An appropriately sized cattleguard(s) sufficient to carry out the project shall be installed and maintained at fence crossing(s).

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.

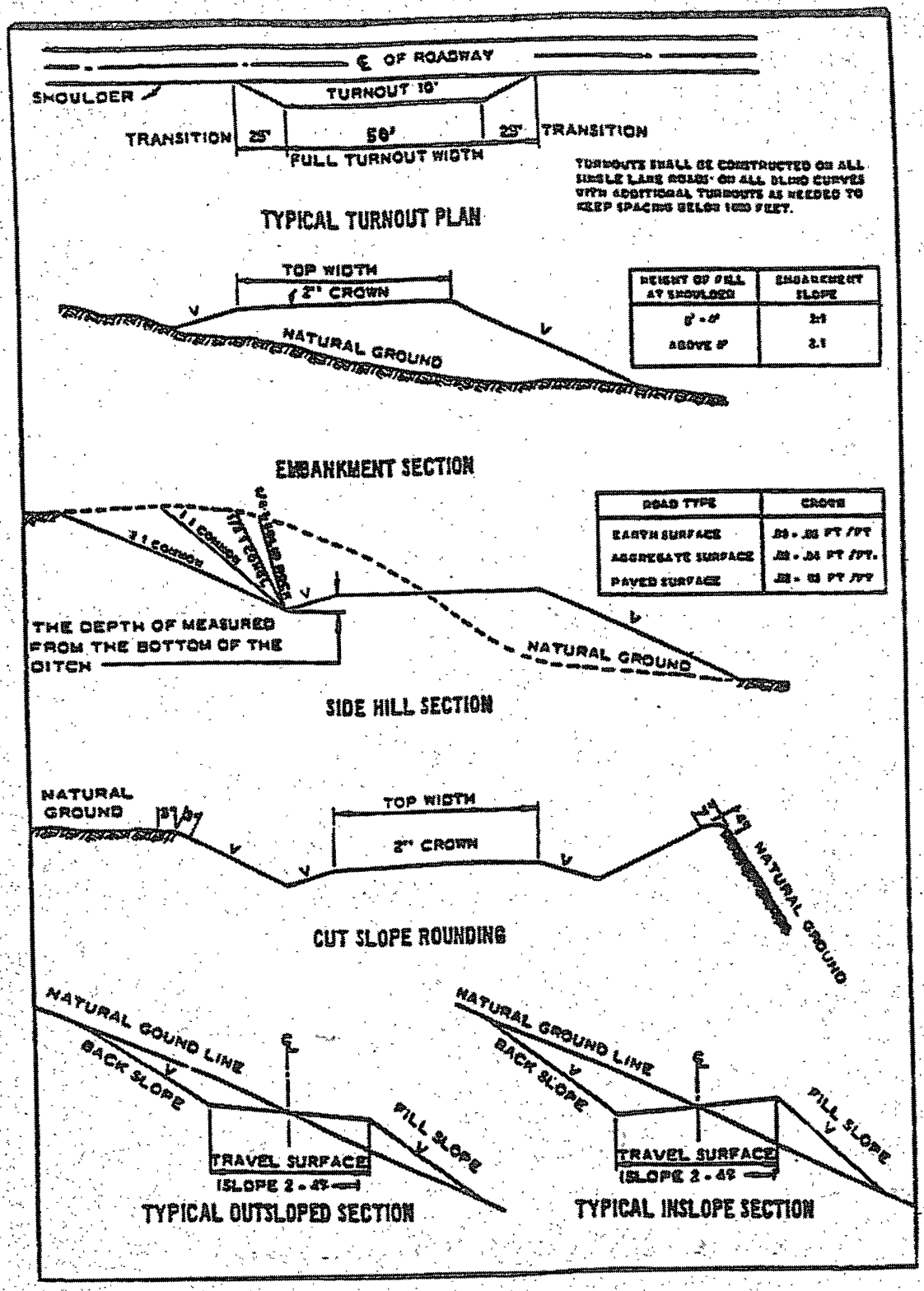
A gate shall be constructed and fastened securely to H-braces.

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 potential hazard. 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.

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 water flow in the San Andres formation.
Slight possibility of high pressure gas accompanying the oil in the Wolfcamp formation.

1. The **8-5/8** inch surface casing shall be set at approximately **1000** 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. **The operator is installing a 5M system and 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 the setting of the surface casing 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.

RGH 033109

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

B. PIPELINES

BURIED PIPELINE STIPULATIONS

A copy of the APD and attachments, including stipulations, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

1. The Holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.

2. The Holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.

3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C.6901, et seq.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.

4. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil or other pollutant should be discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil or other pollutant, wherever found, shall be the responsibility of holder, regardless of fault. Upon failure of holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he deems necessary to control and clean up the discharge and restore the area, including where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of the holder. Such action by the Authorized Officer shall not relieve holder of any responsibility as provided herein.

5. All construction and maintenance activity will be confined to the authorized right-of-way.

6. The pipeline will be buried with a minimum cover of **36** inches between the top of the pipe and ground level.

7. Blading of all vegetation will be allowed. Blading is defined as the complete removal of brush and ground vegetation. Clearing of brush species will be allowed. Clearing defined as the removal of brush while leaving ground vegetation (grasses, weeds, etc.) intact. Clearing is best accomplished by holding the blade 4 to 6 inches above the ground surface. In areas where blading and/or clearing is allowed, maximum width of these operations will not exceed **35** feet.

8. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.

9. Vegetation, soil, and rocks left as a result of construction or maintenance activity will be randomly scattered on this right-of-way and will not be left in row, piles, or berms,

unless otherwise approved by the Authorized Officer. A berm will be left over the ditch line to allow for settling back to grade.

10. In those areas where erosion control structures are required to stabilize soil conditions, the holder will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.

11. The holder will reseed. Seeding will be done according to the attached seeding requirements, using the following seed mix.

( ) seed mixture 1 ( ) seed mixture 3
( ) seed mixture 2 ( ) seed mixture 4

12. All above-ground structures not subject to safety requirements shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be color which simulates "Standard Environmental Colors" – **Shale Green**, Munsell Soil Color No. 5Y 4/2.

13. The pipeline will be identified by signs at the point of origin and completion of the right-of-way and at all road crossings. At a minimum, signs will state the holder's name, BLM serial number, and the product being transported. All signs and information thereon will be posted in a permanent, conspicuous manner, and will be maintained in a legible condition for the life of the pipeline.

14. The holder shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the holder. The holder will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway.

15. Any cultural and/or paleontological resources (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the Authorized Officer. Holder 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 will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

16. Special Stipulations:

IX. INTERIM RECLAMATION & RESERVE PIT CLOSURE

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.

Aplomado Falcon Habitat Seed Mixture

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

(Insert Seed Mixture Here)

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.