

State of New Mexico  
Energy, Minerals and Natural Resources Department

Susana Martinez  
Governor

David Martin  
Cabinet Secretary

Brett F. Woods, Ph.D.  
Deputy Cabinet Secretary

David R. Catanach Division Director  
Oil Conservation Division



New Mexico Oil Conservation Division approval and conditions listed below are made in accordance with OCD Rule 19.15.7.11 and are in addition to the actions approved by BLM on the following 3160-3 APD form.

Operator Signature Date: 5-24-13

Well information;

Operator Vision Energy, Well Name and Number Hogback Deep 7 #23

API# 30-045-26419, Section 7, Township 29 N/S, Range 16 E/W

Conditions of Approval:

(See the below checked and handwritten conditions)

- ☒ Notify Aztec OCD 24hrs prior to casing & cement.
- ☐ Hold C-104 for directional survey & "As Drilled" Plat
- ☐ Hold C-104 for NSL, NSP, DHC
- ☐ Spacing rule violation. Operator must follow up with change of status notification on other well to be shut in or abandoned
- ☐ Regarding the use of a pit, closed loop system or below grade tank, the operator must comply with the following as applicable:
  - A pit requires a complete C-144 be submitted and approved prior to the construction or use of the pit, pursuant to 19.15.17.8.A
  - A closed loop system requires notification prior to use, pursuant to 19.15.17.9.A
  - A below grade tank requires a registration be filed prior to the construction or use of the below grade tank, pursuant to 19.15.17.8.C
- ☐ Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string
- ☒ Regarding Hydraulic Fracturing, review EPA Underground Injection Control Guidance 84
- ☒ Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.
- ☒ Well-bore communication is regulated under 19.15.29 NMAC. This requires well-bore Communication to be reported in accordance with 19.15.29.8.

  
NMOCD Approved by Signature

7-6-2015  
Date



JUN 01 2015

Form 3160-3  
(August 2007)

formerly known as USG Section 18 #47

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
OMB No. 1004-0137  
Expires July 31, 2010

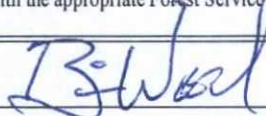
## APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: <input type="checkbox"/> DRILL <input checked="" type="checkbox"/> REENTER		5. Lease Serial No. 4-89-IND-58
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name NAVAJO NATION
2. Name of Operator VISION ENERGY GROUP LLC		7. If Unit or CA Agreement, Name and No.
3a. Address 39 OLD RIDGEBURY ROAD DANBURY CT 06810	3b. Phone No. (include area code) 203 837 2538	8. Lease Name and Well No. HOGBACK DEEP 7 #23
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface 1474' FSL & 1622' FWL At proposed prod. zone SAME		9. API Well No. 30-045-26419
14. Distance in miles and direction from nearest town or post office* 4 AIR MILES WSW OF WATERFLOW, NM		10. Field and Pool, or Exploratory HOGBACK PENN & WC MISSISSIPPIAN
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 1,166'	16. No. of acres in lease 4,480 4,800.00	11. Sec., T. R. M. or Blk. and Survey or Area NESW 1/4-29N-16W NMPM
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 102' (18 #52)	19. Proposed Depth 7,000'	12. County or Parish SAN JUAN
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5,042' UNGRADED	22. Approximate date work will start* 10/01/2013	13. State NM
20. BLM/BIA Bond No. on file 015037275		
23. Estimated duration 3 WEEKS		

## 24. Attachments

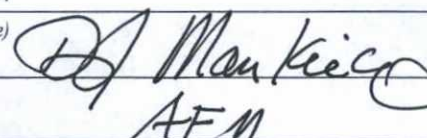
The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must be attached to this form:

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

25. Signature 	Name (Printed/Typed) BRIAN WOOD (505 466-8120)	Date 05/24/2013
------------------------------------------------------------------------------------------------------	---------------------------------------------------	--------------------

Title  
CONSULTANT

(FAX 505 466-9682)

Approved by (Signature) 	Name (Printed/Typed) AFM	Date 5/28/15
----------------------------------------------------------------------------------------------------------------	-----------------------------	-----------------

Title  
AFMOffice  
FFO

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.

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.

**DRILLING OPERATIONS**  
(Continued on page 2)  
**SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS"**

**BLM'S APPROVAL OR ACCEPTANCE OF THIS ACTION DOES NOT RELIEVE THE LESSEE AND OPERATOR FROM OBTAINING ANY OTHER AUTHORIZATION REQUIRED FOR OPERATIONS ON FEDERAL AND INDIAN LANDS**

\*(Instructions on page 2)  
**This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4**

NMOCDAV



DISTRICT I  
1625 N. French Dr., Hobbs, N.M. 88240  
DISTRICT II  
1301 W. Grand Avenue, Artesia, N.M. 88210  
DISTRICT III  
1000 Rio Brazos Rd., Aztec, N.M. 87410  
DISTRICT IV  
1220 S. St. Francis Dr., Santa Fe, N.M. 87505

State of New Mexico  
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, N.M. 87505

Farmington Field Office  
Bureau of Land Management

Form C-102

Revised July 16, 2010

Submit one copy to appropriate  
District Office

☐ AMENDED REPORT

### WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number <b>30-045-26419</b>	<sup>2</sup> Section <b>32770</b>	<sup>3</sup> Pool Name <b>HOGBACK PENN</b>
<sup>4</sup> Property Code <b>315000</b>	<sup>5</sup> Operator Name <b>VISION ENERGY GROUP LLC</b>	<sup>6</sup> Well Number <b>23</b>
<sup>7</sup> GRID No. <b>280962</b>		<sup>8</sup> Elevation <b>5042</b>

#### <sup>10</sup> Surface Location

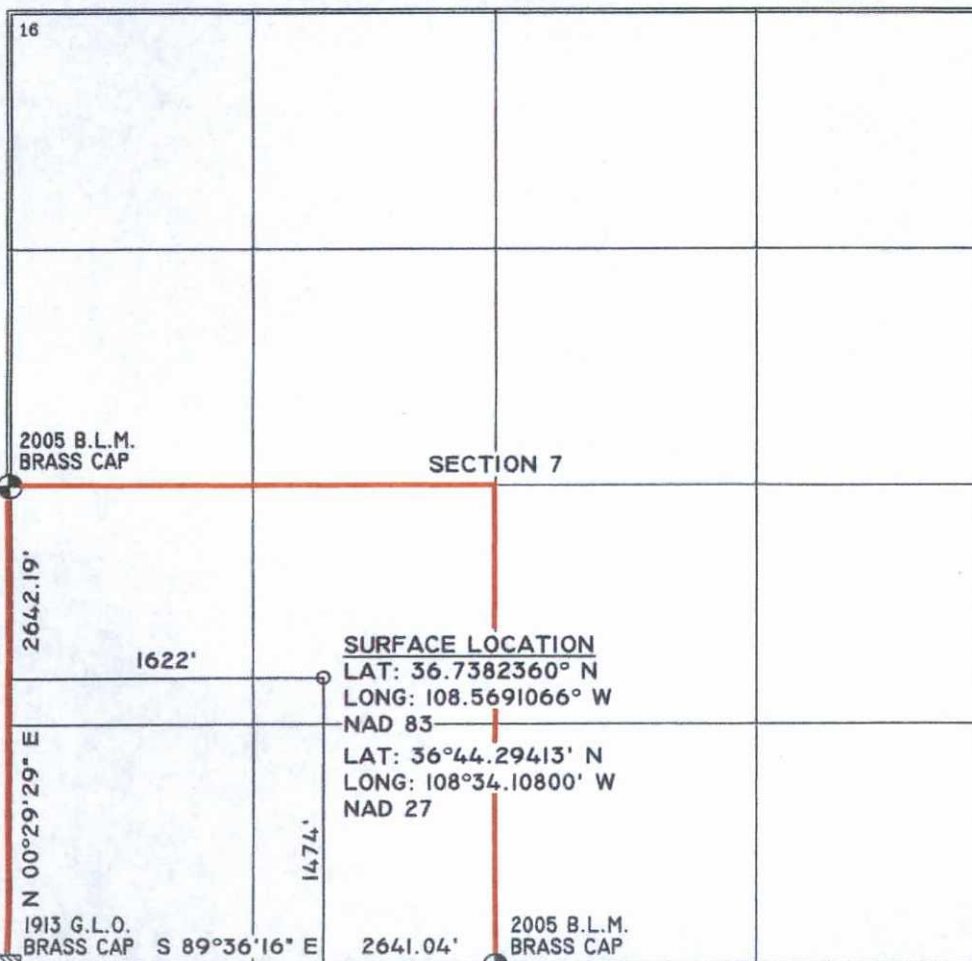
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<b>K</b>	<b>7</b>	<b>29 N</b>	<b>16 W</b>		<b>1474</b>	<b>SOUTH</b>	<b>1622</b>	<b>WEST</b>	<b>SAN JUAN</b>

#### <sup>11</sup> 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

<sup>12</sup> Dedicated Acres <b>160 159.96</b>	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> 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



#### <sup>17</sup> 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.

*Brian Wood*  
Signature  
Date  
**5-24-13**  
**BRIAN WOOD**  
**brian@permitswest.com**  
E-mail Address

#### <sup>18</sup> 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.

**\*06/02/11**  
Date of Survey  
Signature and Seal of Professional Surveyor  
**MARSHALL W. LINDEN**  
**17078**  
Certificate Number

7-2-15 spoke w/ Brian Wood regarding difference in surface location. Stated land was resurveyed in 6-2011 & verified this is the correct location for this well. **N**



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State of New Mexico  
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, N.M. 87505

Form C-102  
Revised July 16, 2010  
Submit one copy to appropriate  
District Office  
dedication changed  
as requested by OCD  
☒ AMENDED REPORT

### WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-045-26419	<sup>2</sup> Pool Code 98179	WC29N16W7K; MISSISSIPPIAN
<sup>3</sup> Property Code 315000	HOGBACK DEEP 7	<sup>4</sup> Well Number 23
<sup>5</sup> OGRID No. 28096	<sup>6</sup> Operator Name VISION ENERGY GROUP LLC	<sup>7</sup> Elevation 5042

#### <sup>10</sup> Surface Location

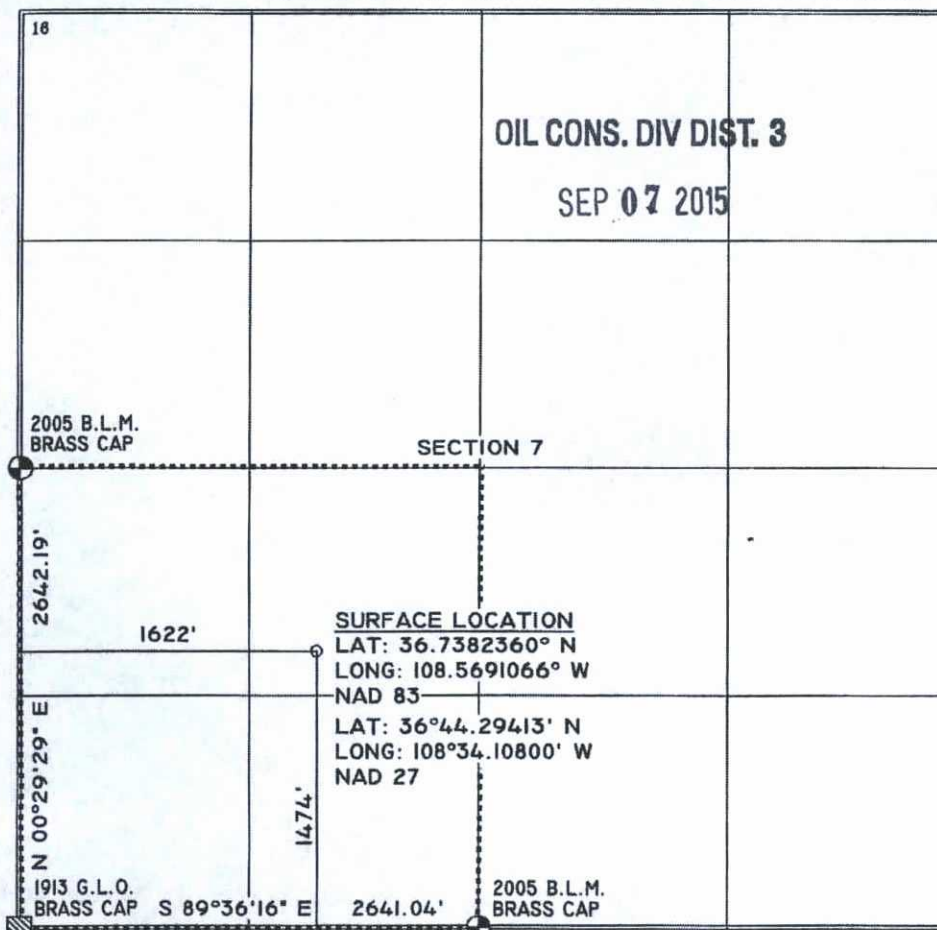
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	7	29 N	16 W		1474	SOUTH	1622	WEST	SAN JUAN

#### <sup>11</sup> 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

<sup>12</sup> Dedicated Acres 100.15996	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> 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



#### <sup>17</sup> 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.

*Brian Wood*  
Signature  
Date  
7-19-15  
BRIAN WOOD  
brian@permitswest.com  
E-mail Address

#### <sup>18</sup> 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.

06/02/11  
Date of Survey  
Signature and Seal of Professional Surveyor  
MARSHALL W. LINDEN  
NEW MEXICO  
17078  
PROFESSIONAL SURVEYOR  
17078  
Certificate Number

Vision Energy Group LLC  
Hogback Deep 7 #23 (fka, USG Section 18 #47)  
1474' FSL & 1622' FWL  
Sec. 7, T. 29 N., R. 16 W.  
San Juan County, New Mexico

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### Drilling Program

#### 1. ESTIMATED FORMATION TOPS (ungraded GL = 5,042')

<u>Formation Name</u>	<u>GL Depth</u>	<u>KB Depth</u>	<u>Elevation</u>
Mancos shale	0'	5'	+5,042'
Dakota sandstone	685'	690'	+4,357'
Entrada sandstone	1,990'	1,995'	+3,052'
Cutler formation	3,904'	3,909'	+1,138'
Ismay carbonate	6,100'	6,105'	-1,058'
Desert Creek	6,240'	6,245'	-1,198'
Akah	6,311'	6,316'	-1,269'
Barker Creek	6,625'	6,630'	-1,503'
Proposed Total Depth (TD)	7,000'	7,005'	-1,958'

#### 2. NOTABLE ZONES

<u>Gas &amp; Oil Zones</u>	<u>Water Zones</u>	<u>Other Mineral Zone</u>
Dakota	Morrison	Morrison
Akah	Entrada	Chinle
Barker Creek		

#### 3. PRESSURE CONTROL

Maximum expected bottom hole pressure will be  $\approx 4,130$  psi. A diagram of a typical 5,000 psi BOP system is on Page 2. Specifications are:

Type: 13-5/8" x 5,000 psi WP double-gate BOP and 13-5/8" x 5,000 psi WP annular BOP with hydraulic closing unit. 13-3/8" x 13-5/8" x 5,000 psi WP slip-on welded casing head and 13-5/8" x 11" x 5000 psi WP casing spool.



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The blowout preventer will be equipped as follows:

- 1) one set of blind rams
- 2) one set of pipe rams
- 3) drilling spool with 2 side outlets (choke side:  $\geq 3"$  minimum kill side:  $\geq 2"$ )
- 4) kill line: 2" minimum
- 5) two kill line valves, one of which will be a check valve ( $\geq 2"$ )
- 6) choke line:  $\geq 3"$
- 7) two choke line valves:  $\geq 3"$
- 8) one manually operated choke:  $\geq 3"$
- 9) pressure gauge on choke manifold
- 10) upper kelly cock with handle readily available
- 11) full opening internal blowout preventer or drill pipe safety valve able to fit all connections
- 12) fill up line to be located above uppermost preventer

#### Test Procedures:

At a minimum, the BOP, choke manifold, and all related equipment will be pressure tested to the approved working pressure of the BOP stack (if isolated from the surface casing by means of a test plug) or to 70% of the internal yield strength of the surface casing (if not isolated from the surface casing by means of a test plug). Pressure will be maintained for a period of at least 10 minutes or until requirements of the test are met, whichever is longer. At a minimum, this pressure test will be performed:

- 1) when the BOP is initially installed
- 2) whenever any seal subject to test pressure is broken
- 3) following related repairs
- 4) at minimum 30 day intervals

In addition to the above, the pipe rams will be activated daily, and the blind rams will be activated each trip (but not more frequently than once each day). All BOP tests and drills will be recorded in the IADC Driller's Log (four sheets).

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All choke lines will be straight lines, unless turns use tee-blocks, or are targeted with running tees. These lines will be anchored to prevent whip and vibration.

The accumulator will have sufficient capacity to close all rams (plus the annular preventer, if applicable) and retain a minimum of 200 psi above the pre-charge pressure, without the use of the closing-unit pumps. The fluid reservoir capacity will be double the accumulator capacity. The fluid level will be maintained at the manufacturer's recommendations. The BOP system will have two independent power sources to close the preventers. Nitrogen bottles (three minimum) will be considered one of these sources and will maintain a charge equal to the manufacturer's specifications.

The accumulator pre-charge pressure test will be conducted prior to connecting the closing unit to the BOP stack and at least once every six months thereafter. The accumulator pressure will be corrected if the measured pre-charge pressure is found to be above or below the maximum or minimum limits as specified on Onshore Oil and Gas Order 2.

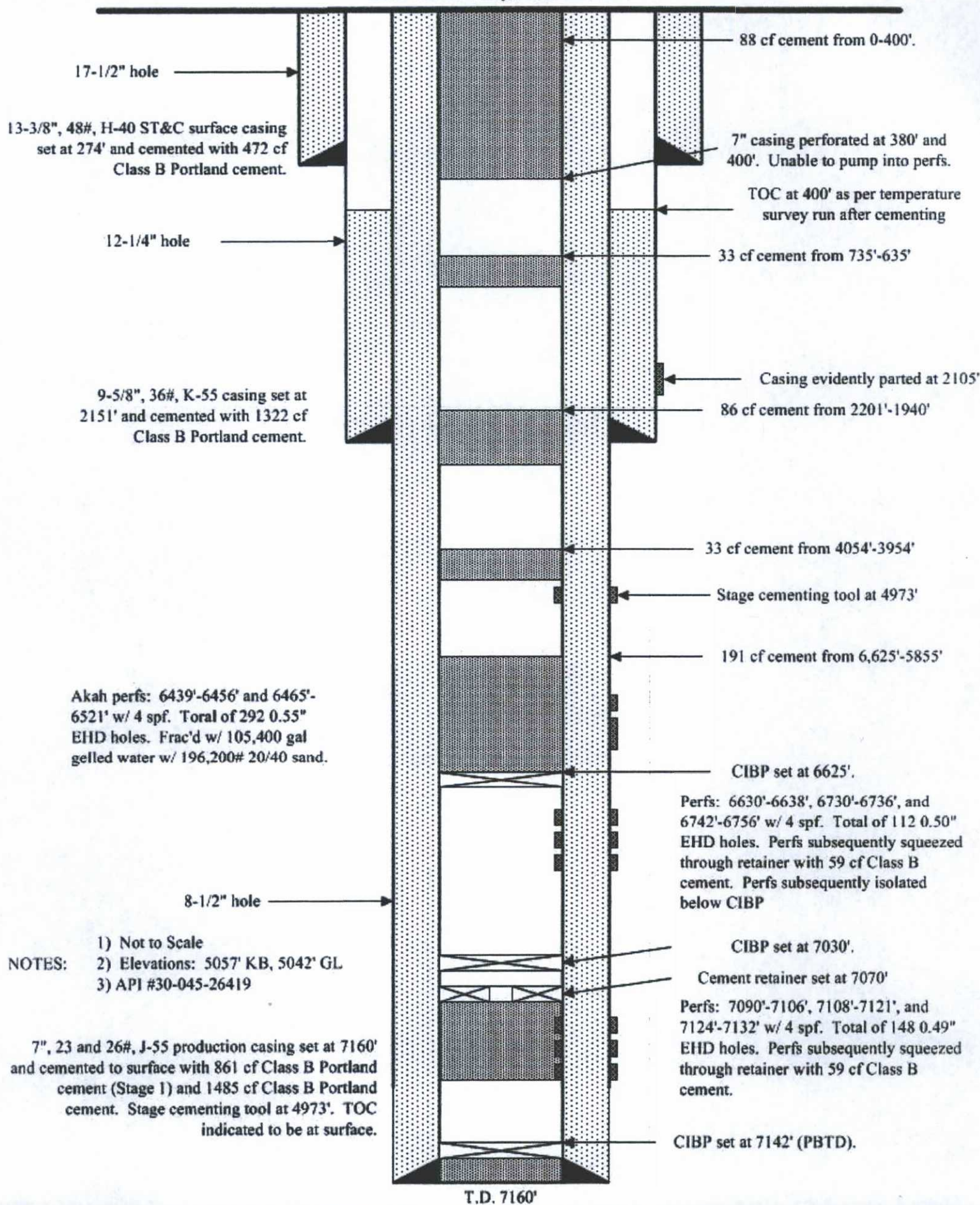
The blowout preventer and related pressure-control equipment will be installed, tested, and maintained in compliance with Onshore Order 2. The choke manifold and BOP extension rods will be located outside the rig substructure. The hydraulic BOP closing unit will be located  $\geq 25$  feet from the well head, but will be readily accessible to the driller. Exact locations and configurations of the hydraulic BOP closing unit will depend upon the particular drilling rig contracted to drill this well. A 20" diverter will be used on the surface hole.

#### 4. CASING & CEMENT

See PAGE 5 for existing casing and cement. Vision will drill out 5 plugs. There will be no activity below 7,000' (current TD is 7,160' and CIBP is at 7,030').



**Amoco Production Company**  
**USG Section 18-47**  
**1505' FSL & 1690' FWL (NESW) Sec 7-T29N-R16W**  
**San Juan County, New Mexico**





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5. MUD PROGRAM

Use 9 pound 50 viscosity mud or greater.

6. CORES, TESTS, & LOGS

No cores or drill stem tests are planned. Cased hole neutron and CBL/GR/CCL logs will be run from the base of the surface casing to TD. CBL will be run on any casing string where cement is not circulated to the surface.

7. DOWN HOLE CONDITIONS

No abnormal temperatures are expected. Maximum bottom hole pressure gradient will be 0.59 psi/foot.

8. MISCELLANEOUS

Anticipated spud date is upon approval. It is expected it will take ≈3 weeks to test and complete the well.

Footages from section lines are shown as 1505 FSL & 1690 FWL on C-102 dated March 22, 1985. Well was drilled in 1985 and plugged and abandoned in 1993.

Re-entry procedures are:

Dig out wellhead, cut off P&A marker, weld on 7" x 7-1/16" x 5000 psi WP casing head to 7" casing, and pressure test.

Set anchors for rig and move in rig.



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Pick up 6-1/8" bladed bit, drill collar, and mud motor. Drill out first plug (GL - 400'), tag second plug at 635', and pressure test casing.

Drill out three plugs (635'-735', 1940'-2201', and 3954'-4054') and pressure test casing.

Drill out plug (5855'-6625') and pressure test casing.

Test Akah. There is no record that the Akah perforations were ever squeezed. Run casing scraper to 6625', run cased hole logs, set packer at 6350', swab, flow test well, and acidize as needed.

Release packer and kill well. Drill out CIBP at 6625', tag CIBP at 7030', reset packer at 6550', swab test un-squeezed Barker Creek perforations, and acidize as needed.



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Surface Use Plan

1. DIRECTIONS & ROADS (See PAGES 13 - 16)

From the NM 371 San Juan River bridge in southwest Farmington...  
Go South for 0.7 miles on NM 371  
Then turn right and go West  $\approx$ 20 miles on paved N-36 to milepost  $\approx$ 8.6  
Then turn right at a cattle guard and go NW 100 yards on a dirt road  
Then bear right and go North  $\frac{1}{2}$  mile on a dirt road (passing the tank battery)  
Then turn right after crossing a canal and go East 100 yards  
Then turn left and go North  $\frac{1}{5}$  mile on a dirt road  
Then turn left and go West 100 yards on a dirt road to the pad

Roads will be maintained to at least equal their present condition.

2. ROAD TO BE BUILT OR UPGRADED (See PAGES 15 & 16)

No new road is needed. The pad overlaps Vision's producing 18 #52 oil well pad. Upgrade of the existing road will consist of rocking where needed and watering when needed.

3. EXISTING WELLS (See PAGE 14)

Fourteen oil wells, one saltwater disposal well, and thirty-eight plugged wells are within a mile radius. There are no gas, water, or injection wells within a mile according to state records.



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4. PROPOSED PRODUCTION FACILITIES (See PAGES 15 & 16)

Two  $\approx$ 400 barrel steel oil tanks, one  $\approx$ 400 barrel water tank, and a separator may be installed on the pad. All surface equipment will be painted a flat juniper green color. Pump, if needed, will be powered by propane or the well's own gas. Pump muffler will comply with BLM standards. A 3,886.76' long pipeline route will run south along roads to Vision's existing tank battery and Vision's existing 18 #43 saltwater disposal well. Pipelines will be trenched except where the 8' wide concrete irrigation ditch is crossed. The ditch crossing will be bored. Pipelines will include a water line, fuel gas line, and flow line.

5. WATER SUPPLY

Water will be trucked from Farmington, Kirkland, or Waterflow.

6. CONSTRUCTION MATERIALS & METHODS

NM One Call (1-800-321-ALERT) will be called  $\geq$ 72 hours before construction starts. Top 6" of soil and brush will be piled north of the pad. Slopes will be no steeper than 3 to 1.

7. WASTE DISPOSAL

✓ No reserve pit will be used. Instead, a closed loop system with steel tanks will be used. Cuttings and mud will be hauled to a state approved disposal site off the reservation.

All trash will be placed in a portable trash cage. It will be hauled to the county landfill. There will be no trash burning. Once dry, contents of the reserve pit will

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be buried in place. Human waste will be disposed of in chemical toilets and hauled to an approved dump station.

#### 8. ANCILLARY FACILITIES

There will be no airstrip or camp. Camper trailers will be on location for the company man, tool pusher, or mud logger.

#### 9. WELL SITE LAYOUT

See Pages 17 and 18 for drawings of the well pad, cross section, cut and fill diagram, reserve pit, trash cage, access onto the location, parking, living facilities, and rig orientation.

#### 10. RECLAMATION

Reclamation will start once each phase of construction or use is completed. Cut and fill slopes around the pad will be immediately reclaimed. All but a teardrop portion of the pad will be reclaimed after the well is completed. Once the well is plugged, the remainder of the pad and road will be reclaimed.

All reclamation will leave the terrain with a natural shape, slopes will be no steeper than 3 to 1, all compacted areas will be ripped  $\geq 12"$  deep with the contour, seeded, and mulched with straw. A seed mix will be drilled as prescribed by the BIA or Navajo Nation. Weeds will be controlled in accordance with Navajo Nation EPA requirements. Call Glenna Lee @ 928 871-7815 for a list of approved herbicides and applicators.



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#### 11. SURFACE OWNER

All construction will be on lease and on Navajo Nation surface. Tribal Project Review Office phone number is (928) 871-6447. Their address is P. O. Box 2249, Window Rock, Arizona, 86515.

Land use will be:

well site: 100' x 100' = 0.23 acre  
+ pipeline: 40' x 3,886.76' = 3.56 acres  
Total = 3.79 acres  
(7 & 18-29n-16w)

#### 12. OTHER INFORMATION

The nearest hospital is a  $\geq 20$  minute drive to the north side of Shiprock.

Bertha Spencer (BIA), Esther Kee (Project Review), Pam Kyselka (Navajo Natural Heritage Program), and Charles Black (Permits West) attended the June 7, 2011 on site inspection.

#### 13. REPRESENTATION & CERTIFICATION

I hereby 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 which currently 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 24th day of May, 2013.

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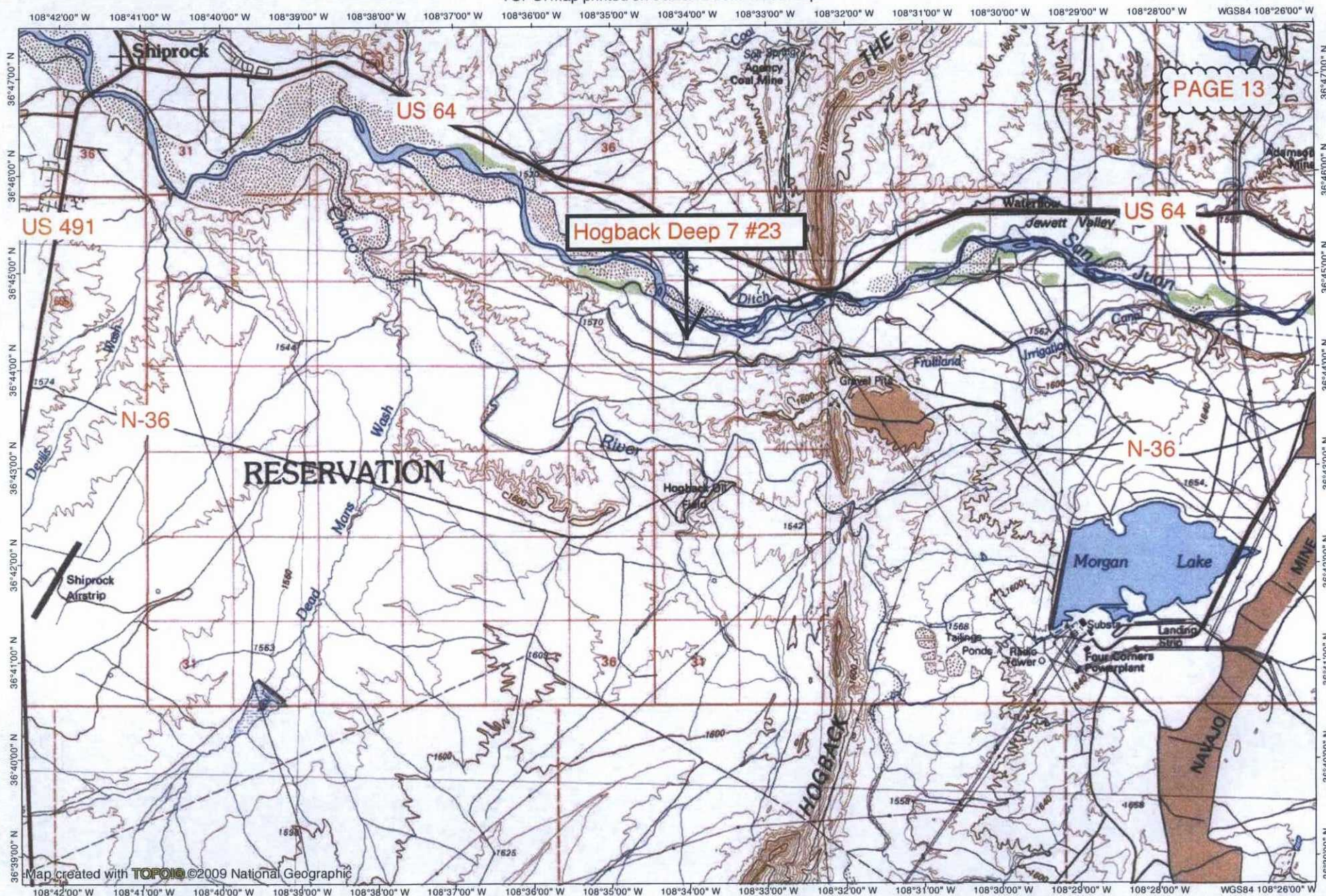
Brian Wood, Consultant  
Permits West, Inc.  
37 Verano Loop, Santa Fe, NM 87508  
(505) 466-8120 FAX: (505) 466-9682

Cellular: (505) 699-2276

The field representative will be:

Dan Dalton  
Praxair Inc.  
483 Turner Dr.  
Rock springs, WY 82901  
(307) 871-2007





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Hogback Deep 7 #23

RESERVATION

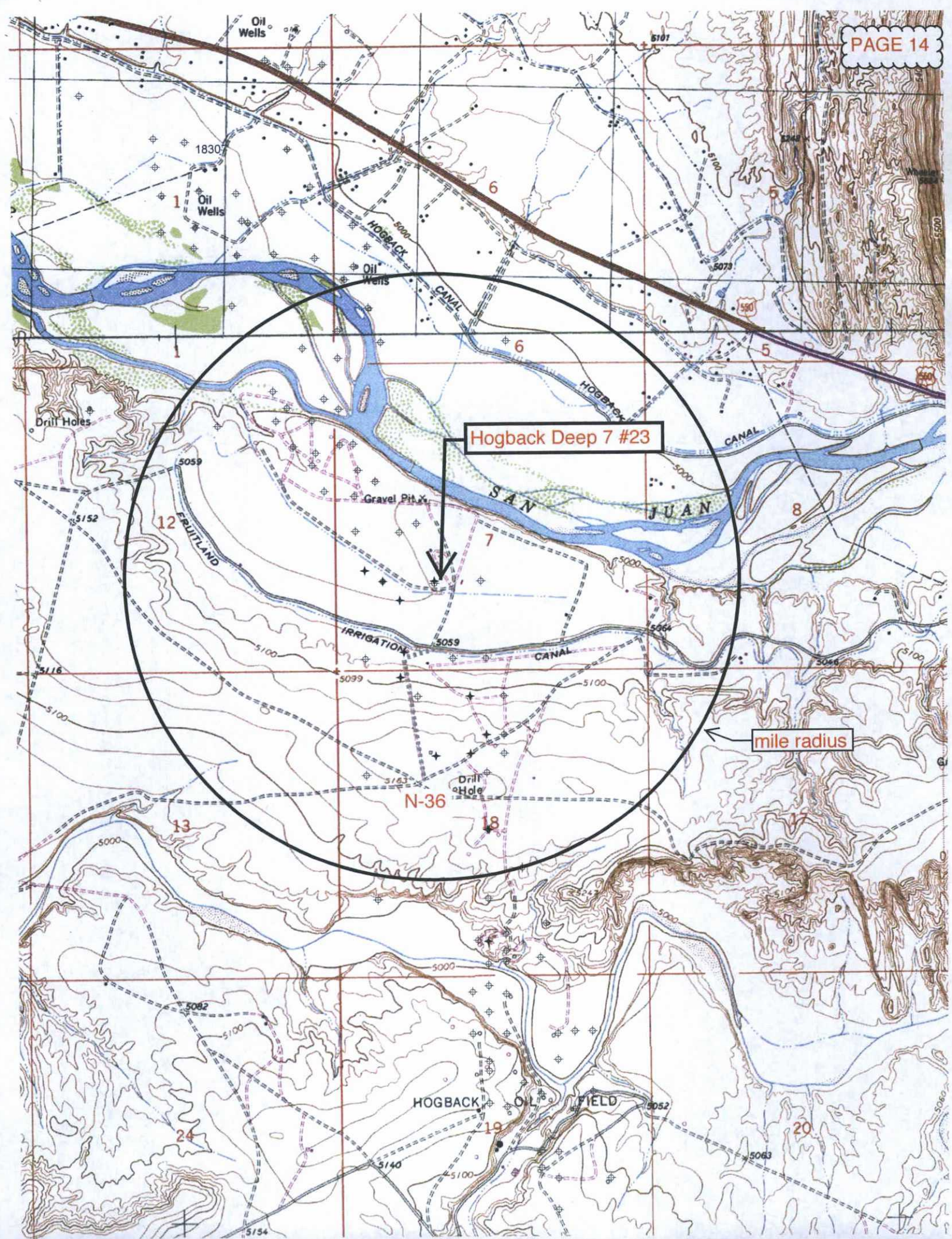
Morgan Lake

NATIONAL  
GEOGRAPHIC



TN+1MN  
10°  
06/23/12







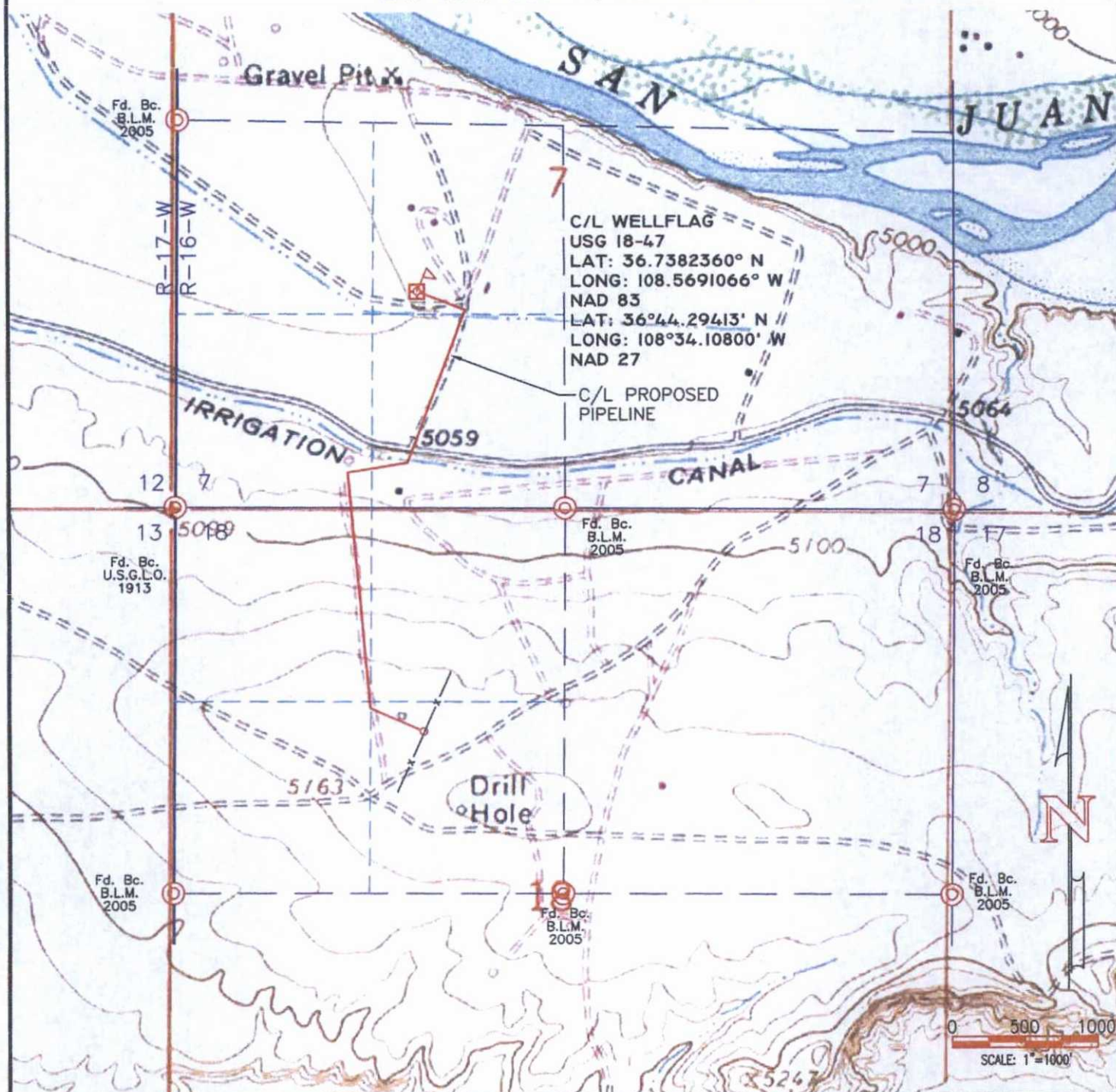
# VISION ENERGY GROUP LLC

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## PROPOSED PIPELINE

LOCATED ON THE NAVAJO INDIAN RESERVATION

NW/4 SEC. 18 & THE SW/4 OF SEC. 7, T-29-N, R-16-W, N.M.P.M.,  
SAN JUAN COUNTY, NEW MEXICO



HOGBACK NORTH QUADRANGLE

VISION ENERGY  
GROUP LLC

**UNITED**  
FIELD SERVICES INC.  
P.O. BOX 3651  
FARMINGTON, NM 87499  
OFFICE: (505) 354-0408

SURVEYED: 05/25/11

REV. DATE:

APP. BY M.W.L.

DRAWN BY: C.B.

DATE DRAWN: 06/03/11

FILE NAME: 10000T02



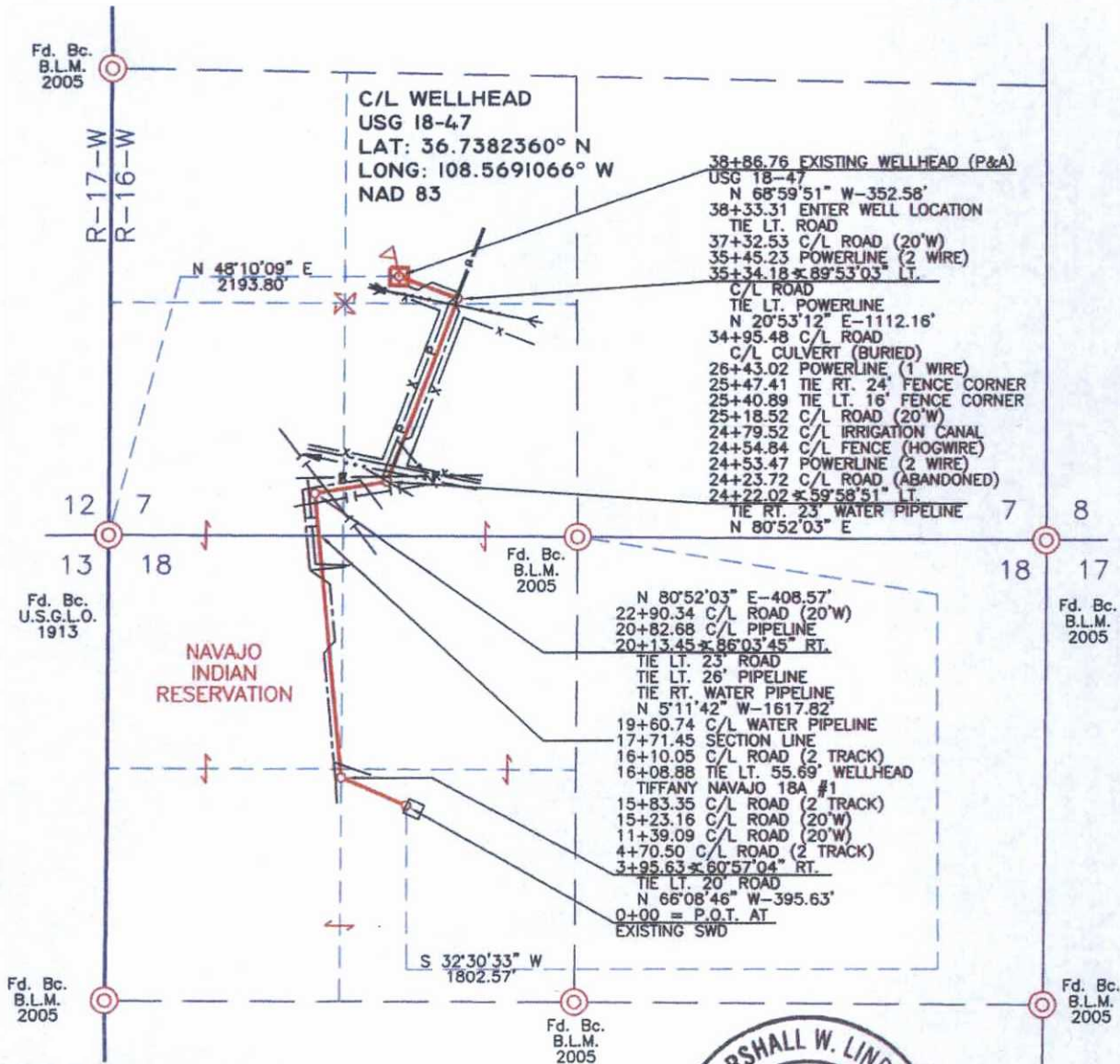
# VISION ENERGY GROUP LLC

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## PROPOSED PIPELINE

### LOCATED ON THE NAVAJO INDIAN RESERVATION

NW/4 OF SEC. 18 & THE SW/4 OF SEC. 7, T-29-N, R-16-W, N.M.P.M.,  
SAN JUAN COUNTY, NEW MEXICO



#### NOTES:

1. BASIS OF BEARING: MONUMENTED SOUTH LINE OF THE SW/4 OF SECTION 7, T-29-N, R-16-W, N.M.P.M., SAN JUAN COUNTY, NEW MEXICO. BEARS: S 89°36'16\"
2. ALL BEARINGS & DISTANCES SHOWN ARE BASED UPON THE NEW MEXICO COORDINATE SYSTEM, WEST ZONE, NAD 83 (COMBINED SCALE FACTOR: 0.9997321)

SURFACE OWNER	STATION	FEET/RODS
NAVAJO INDIAN RESERVATION	0+00 TO 38+86.76	3886.76/235.561

I, MARSHALL W. LINDEEN, BEING A PROFESSIONAL SURVEYOR IN THE STATE OF NEW MEXICO, DO HEREBY CERTIFY THAT THE SURVEY REPRESENTED BY THIS PLAT WAS MADE UNDER MY DIRECT SUPERVISION AND THAT THIS PLAT ACCURATELY REPRESENTS THIS SURVEY TO THE BEST OF MY KNOWLEDGE AND BELIEF.

*Marshall W. Lindeen*

MARSHALL W. LINDEEN P.S. #17078

6-4-11

DATE



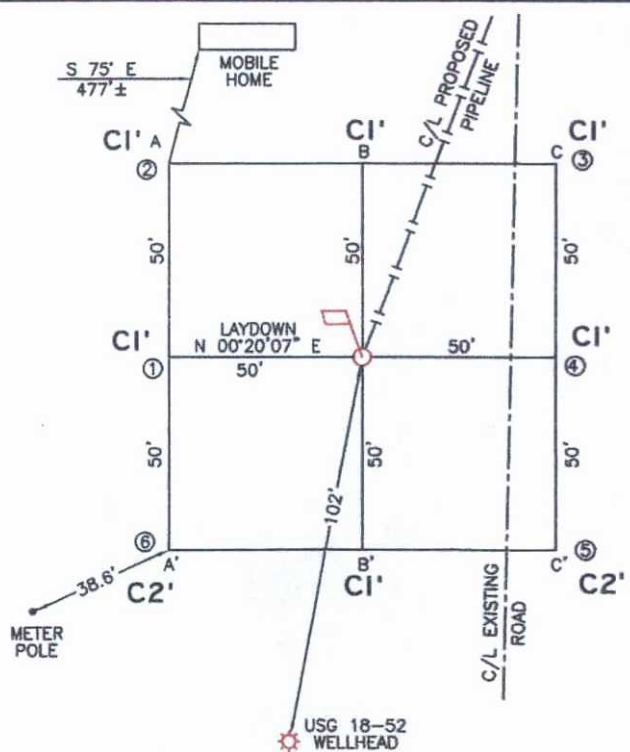
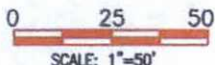
VISION ENERGY  
GROUP LLC



SURVEYED: 05/25/11	REV. DATE:	APP. BY M.W.L.
DRAWN BY: C.B.	DATE DRAWN: 06/03/11	FILE NAME: 10000PO1



BEFORE DIGGING  
CALL FOR UTILITY  
LINE LOCATION!



A-A'

℄

5045				
5040				
5035				
5030				

B-B'

℄

5045				
5040				
5035				
5030				

C-C'

℄

5045				
5040				
5035				
5030				

CROSS SECTIONS  
HORIZONTAL: 1"=50'  
VERTICAL: 1"=20'

LEASE: **HOGBACK DEEP 7 #23**  
FOOTAGE: **1474' FSL, 1622' FWL**  
SEC. **7** TWN. **29 N** RNG. **16 W** N.M.P.M.  
LAT: **N 36.7382360°** LONG: **W 108.5691066° (NAD 83)**  
ELEVATION: **5042**

VISION ENERGY  
GROUP LLC



SURVEYED: 06/02/11	REV. DATE:	APP. BY M.W.L.
DRAWN BY: C.B.	DATE DRAWN: 06/03/11	FILE NAME: 10000C01

Vision Energy Group LLC  
Hogback Deep 7 #23 (fka, USG Section 18 #47)  
1474' FSL & 1622' FWL  
Sec. 7, T. 29 N., R. 16 W.  
San Juan County, New Mexico

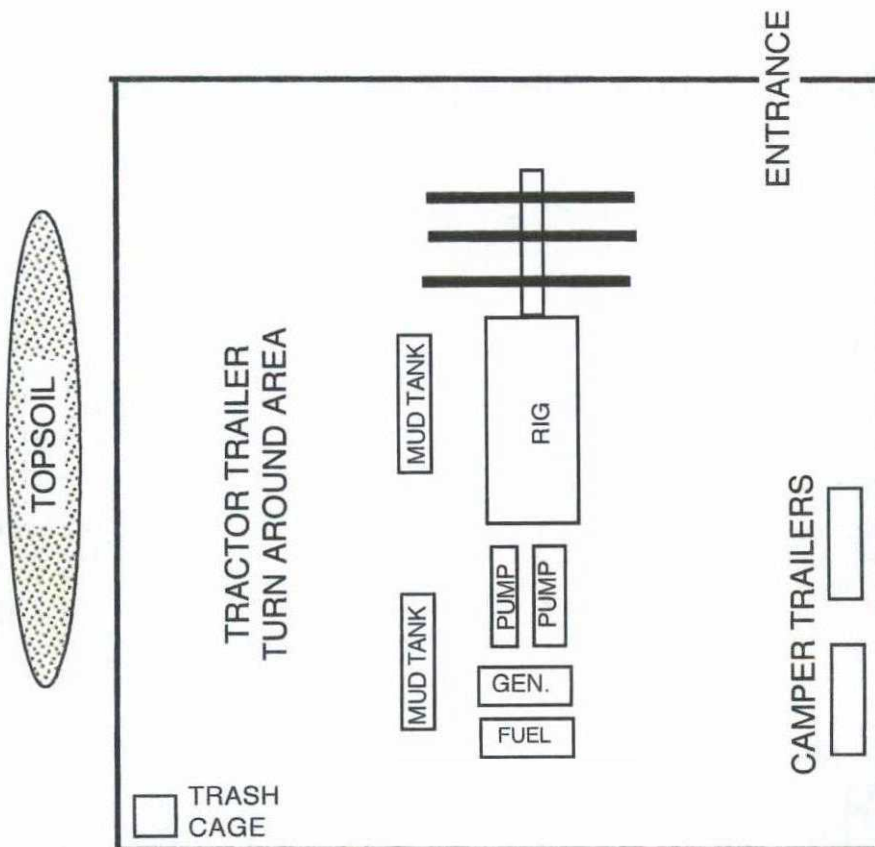
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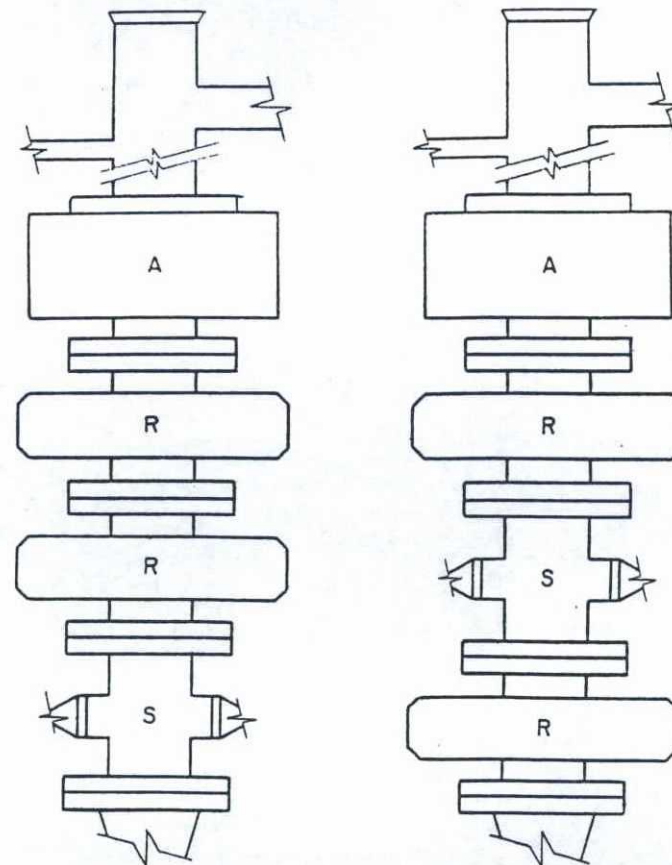
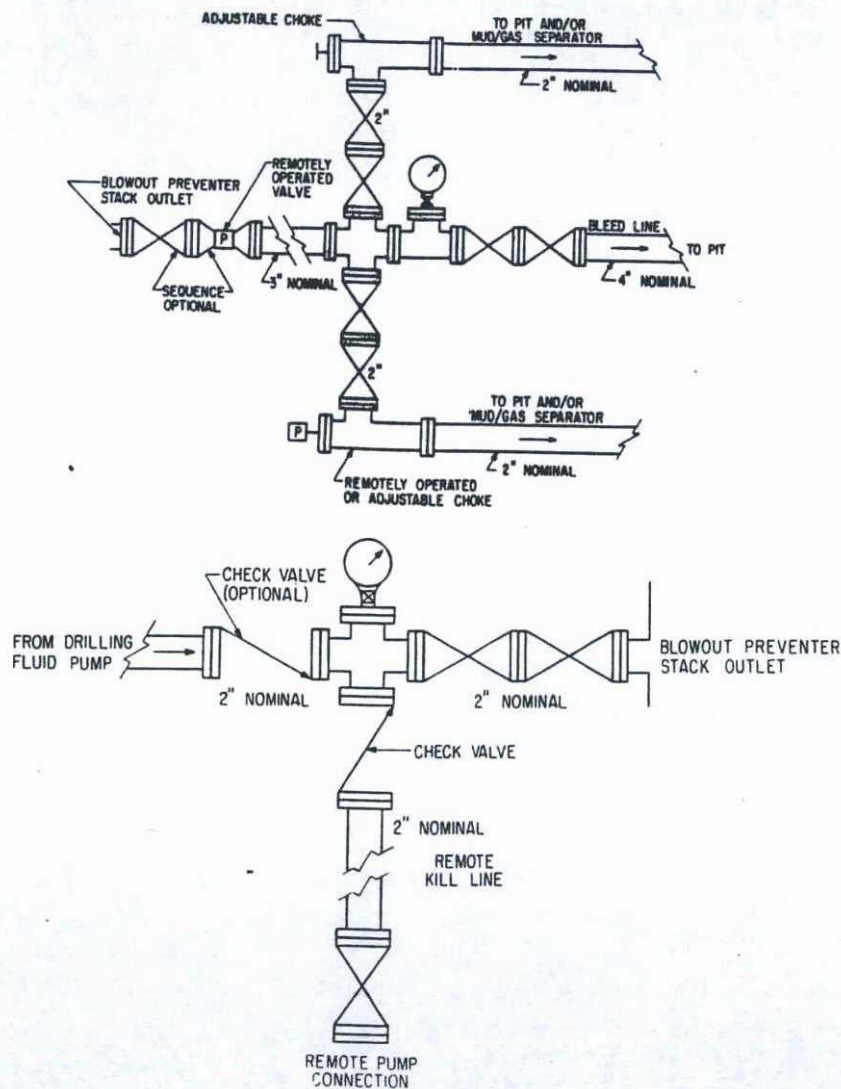
NORTH



1" = 25'







TYPICAL 5,000 psi WORKING PRESSURE BOP STACKS

A = Annular type blowout preventer  
 R = Ram  
 S = Drilling spool with side outlet connections for choke & kill lines