OCD-ARTESIA

AS-07-736

Form 3160-3
(April 2004)

OCT 16 2007

OCD-ARTESIA

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

1302

APPLICATION FOR PERMIT TO DRILL OR REENTER

S

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

5 Lease Serial No. NM0554499

6. If Indian, Allotee or Tribe Name

1a. Type of work ☑ DRILL ☐ REENTER

7 If Unit or CA Agreement, Name and No. **Ross Draw Unit #28**

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

8. Lease Name and Well No. **Ross Draw Unit #28** 11808

2. Name of Operator **J.C. Williamson** 11158

9 API Well No. 30-015-35865

3a Address **214 W. Texas Suite 1250 Midland, Texas 79701**

3b Phone No. *(include area code)* **432-682-1797**

10. Field and Pool, or Exploratory **Ross Draw - Delaware** East

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*
At surface **660' FSL**
At proposed prod. zone **1980' FWL**

Carlsbad Controlled Water Basin

11. Sec., T. R. M. or Blk. and Survey or Area **Section 26, T-26S, R-30E**

14. Distance in miles and direction from nearest town or post office* **34 miles SE of Carlsbad**

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) **660' FSL**	16 No. of acres in lease **80**	17 Spacing Unit dedicated to this well **40**
18 Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft **1980' FWL**	19 Proposed Depth **7,400'**	20 BLM/BIA Bond No. on file **NM2469**
21 Elevations (Show whether DF, KDB, RT, GL, etc.) **3,006 GL**	22. Approximate date work will start* **10/20/2007**	23 Estimated duration **30 Days**

24. Attachments

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

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

25. Signature Bobbi Brice	Name *(Printed/Typed)* **Bobbi Brice**	Date **09/25/2007**

Title **Regulatory Agent**

Approved by *(Signature)* **/s/ James Stovall**	Name *(Printed/Typed)*	Date OCT 14 2007
Title **FIELD MANAGER**	Office **CARLSBAD FIELD OFFICE**	

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

APPROVAL FOR TWO YEARS

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on page 2)

APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED

SEE ATTACHED FOR CONDITIONS OF APPROVAL

If earthen pits are used in association with the drilling of this well, an OCD pit permit must be obtained prior to pit construction.

State of New Mexico
Energy, Minerals and Natural Resources Department

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

OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code	Pool Name
	52795	Ross Draw; Delaware, East

Property Code	Property Name	Well Number
	ROSS DRAW UNIT	28
OGRID No.	Operator Name	Elevation
	J.C. WILLIAMSON	3006'

Surface Location

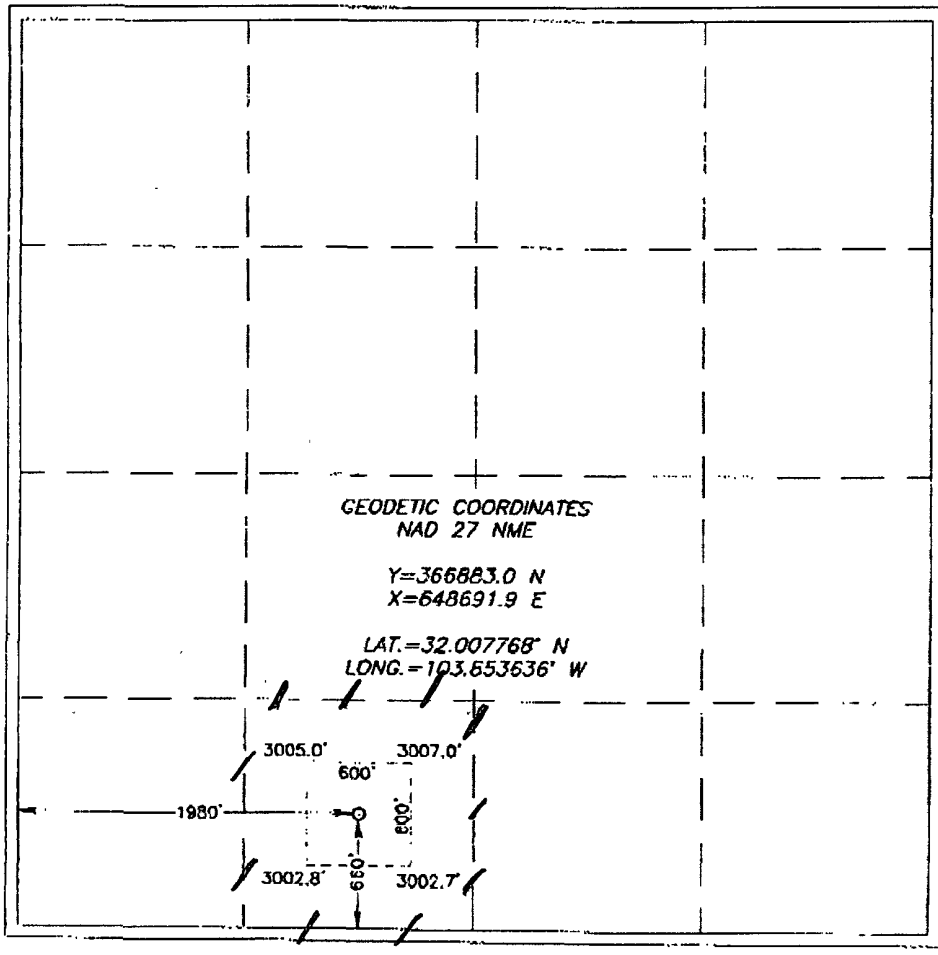
Ul. or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	26	26-S	30-E		660	SOUTH	1980	WEST	EDDY

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

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
40			

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 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 mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Bobbi Brice 9/25/07
Signature Date

Bobbi Brice - Agent
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.

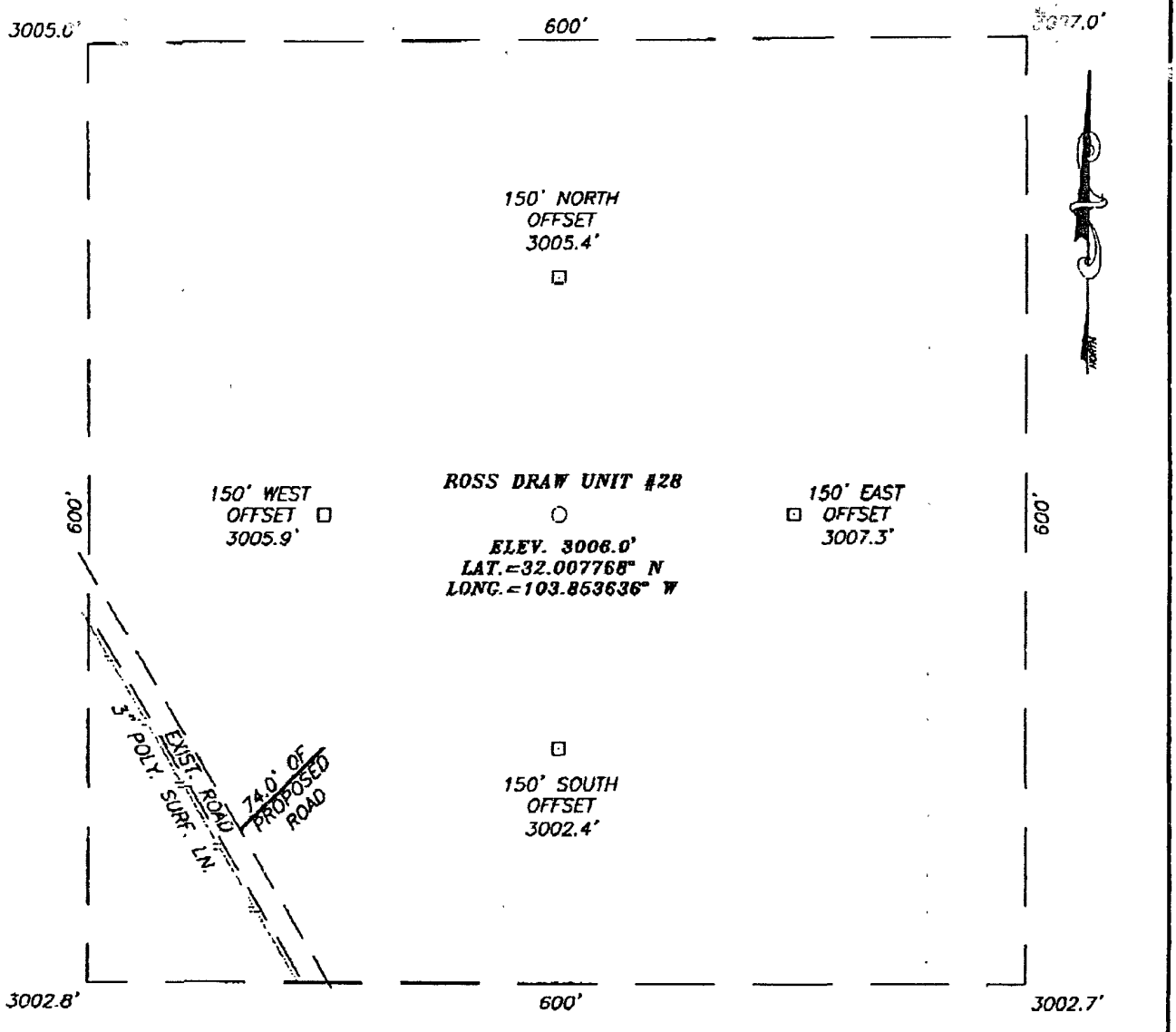
RONALD J. EIDSON
AUGUST 30, 2007
NEW MEXICO
12641
REGISTERED PROFESSIONAL SURVEYOR

Date Surveyed DSS
Signature & Seal of Professional Surveyor
9/07/07
07.11.1142

Certificate No. GARY EIDSON 12641

SECTION 26, TOWNSHIP 26 SOUTH, RANGE 30 EAST, N.M.P.M.,

EDDY COUNTY, NEW MEXICO



DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF CO. HWY. #C-1 AND STATE LINE ROAD, GO WEST ON STATE LINE ROAD 14.0 MILES. TURN RIGHT AND GO 441 FEET. TURN RIGHT AND FOLLOW PROPOSED STAKED ROD 74 FEET TO THE SOUTHWEST CORNER OF THIS LOCATION.

100 0 100 200 Feet

Scale: 1"=100'

PROVIDING SURVEYING SERVICES SINCE 1946

JOHN WEST SURVEYING COMPANY

412 N. DAL PASO

HOBBS, N.M. 88240

(505) 393-3117

J.C. WILLIAMSON

ROSS DRAW UNIT #28 WELL
LOCATED 1980 FEET FROM THE WEST LINE
AND 660 FEET FROM THE SOUTH LINE OF SECTION 26,
TOWNSHIP 26 SOUTH, RANGE 30 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO.

Survey Date: 8/30/07	Sheet 1 of 1 Sheets		
W.O. Number: 07.11.1142	Dr By: DSS	Rev 1: N/A	
Date: 9/6/07	Disk: .	07111142	Scale: 1"=100'

Mud, Casing & Cementing Program

J.C. Williamson
Well: Ross Draw Unit #28
660' FSL, 1980' FWL, Sec. 26, T26-S, R30-E
Eddy Co., NM
Lease No. NM

*** Attachment to Revised Drilling Operations Plan ***

4. Proposed Mud, Casing and Cementing Program:

Projected Mud Properties

INTERVAL: 0-725'		17.5" hole				13.375" casing
DEPTH	MW - ppg	Vis	Fil	pH	Sol%	
0-725'	8 4 - 9.4	32-34	N/C	9.0	3-8	Fresh /water Gel - Spud Mud
INTERVAL: 725' - 3350'		12.25" hole				8.625" casing
DEPTH	MW - ppg	Vis	Fil	pH	Cl-ppm	
725' - 3,350'	10	28	N/C	10	186K	Brine Water
INTERVAL: 3350' - 7,200'		7.875" hole				
DEPTH	MW - ppg	Vis	Fil	pH	Cl-ppm	
3,350' - 7,200'	9.0 - 9 3	28	N/C	10	55 - 75K	Cut Brine Water
INTERVAL: 7,200' - 7,400'		7.875" hole				5.5" casing
DEPTH	MW - ppg	Vis	Fil	pH	Cl-ppm	
7,200' - 7,400'	9.0 - 9.5	30 - 34	15cc	10	80 - 140K	Salt Gel - Circulate through steel pits
						with Hi-Vise pills as necessary

Sufficient mud materials will be kept on location at all times in order to combat lost circulation, or unexpected kicks in order to run DSTs, open hole logs, and casing, the viscosity and water loss may have been adjusted in order to meet these needs.

Hole Size	Depth	Casing OD	Weight	Thread	Collar	Grade
17-1/2"	0' - 725'	New 13-3/8"	48#	8rd	STC	H-40
12-1/4"	0' - 3350'	New 8-5/8"	24# & 32#	8rd	STC	J-55
7-7/8"	0' - 7400'	New 5-1/2"	17#	8rd	LTC	J-55

J.C. William uses the following minimum safety factors:

Burst:	Collapse:	Tension:
1.125	1.0	1.80

A 17-1/2" hole for surface casing will be drilled to a depth below fresh water zone. 13-3/8" 48 #, H-40, ST & C, surface casing will be run to a depth of 725', below all fresh water zones and will be cemented to the surface with Lead Cement: 310 sks Class "C" 65/35/6 with 2% CaCI, ¼# Cello Flake mix - @ 12.4# gal,1.97 cu.ft/sk, 10.9 gal/sk. Tail cement: 185 sk Class "C" with 2% CaCI, ¼# Cello flake-mix @ 14.8# gal, 1.32 cu.ft/sk, 6.3/gal/sk to surface. Displace cement with fresh water to float collar. Top out with pea gravel and cement of 1" as necessary. ← see COA

A 12-1/4" hole will be drilled and 8-5/8" 24# & 32#, J-55 ST & C, intermediate casing will be run to a depth of 3350' and will be cemented with Lead: 1045 sks Class "C" interfill cement @ 2.47 cu.ft/sk w/14.3 gal/sk. Tail: 100 sks Class "C" w/ 2% Calcium Chloride @ 1.35 cu.ft/sk w/ 6.39 gal/sk and displaced with fresh water to float collar.

A 7-7/8' hole will be drilled and 5-1/2" 17#, J-55, LT & C, production casing will be run to total depth and will be cemented at a total depth is significant shows are encountered in the Brushy Canyon formation. The second stage of the cement procedure should tie the 5-/2" casing back into the 8-5/8" surface casing, which is well above all productive zones. Cement operations for 5-1/2" production casing will be as follows: Pump 20 bbl fresh water, pump 500 gal super flush 102, vol. 11.90 bbl, pump 10 bbl fresh water, vol. 10 bbl, **First Stage** mix and pump with 350 sks 50/50 Poz premium plus cement (2% Gel), weight: 14.20 lbm/gal, 0.5% LAP-1 (Low fluid loss control), slurry yield: 1.29 ft^3/sk, 0.4% CFR (Dispersant) total mixing fluid: 6.00 gal/sk, 0.25 lbm/sk D-AIR 3000 (Defoamer), top of fluid 5300 ft., 0.1% HR-7 (retarder), calculated fill: 1700 ft, volume 79.62 bbl, calculated sacks: 346.53 sks, proposed saks: 350 sks. **Mulitple Stage Cementer @ 5,300'.** fluid 1: precede cement with 20 bbl fresh water, fluid vol. 20 bbl. Fluid 2: **Second Stage**: lead with 410 sks, interfill with "C" cement, fluid weight: 11.90 lbm/gal, 0.125 lbm/sk Poly-E-Flake (lost circulation additive), slurry yield: 2.47 ft^3/sk. total mixing fluid: 14.27 Gal/sk, top of fluid 0 ft, calculated fill 4,788', vol. 179.99 bbl, calculated sacks: 409.14, proposed sacks: 410 sks. Tail in with 100 sks premium plus cement, 94 lbm/sk premium plus cement, fluid weight: 14.80 lbm/gal, slurry yield: 1.33 ft^3/sk, total mixing fluid: 6.34 gal/sk, top of fluid: 4,788', calculated fill 512', vol. 23.69 bbl., calculated sacks: 100 sks.

Sufficient mud materials will be kept on location at all times in order to combat lost circulation, or unexpected kicks in order to run DSTs, open hole logs, and casing, the viscosity and water loss may have been adjusted in order to meet these needs.

Hole Size	Depth	Casing OD	Weight	Thread	Collar	Grade
17-1/2"	0' - 725'	New 13-3/8"	48#	8rd	STC	H-40
12-1/4"	0' - 3350'	New 8-5/8"	24# & 32#	8rd	LTC	J-55
7-7/8"	0' - 7400'	New 5-1/2"	17#	8rd	LTC	J-55

24# 1800-2000'
32# remainder per operator 10/10/07

J.C. William uses the following minimum safety factors:

Burst:	Collapse:	Tension:
1.125	1.0	1.80

A 17-1/2" hole for surface casing will be drilled to a depth below fresh water zone. 13-3/8" 48 #, H-40, ST & C, surface casing will be run to a depth of 725', below all fresh water zones and will be cemented to the surface with Lead Cement: 310 sks Class "C" 65/35/6 with 2% CaCI, ¼# Cello Flake mix - @ 12.4# gal,1.97 cu.ft/sk, 10.9 gal/sk. Tail cement: 185 sk Class "C" with 2% CaCI, ¼# Cello flake-mix @ 14.8# gal, 1.32 cu.ft/sk, 6.3/gal/sk to surface. Displace cement with fresh water to float collar. Top out with pea gravel and cement of 1" as necessary.

See COA

A 12-1/4" hole will be drilled and 8-5/8" 24# & 32#, J-55 LT & C, intermediate casing will be run to a depth of 3350' and will be cemented with Lead: 1045 sks Class "C" interfill cement @ 2.47 cu.ft/sk w/14.3 gal/sk. Tail: 100 sks Class "C" w/ 2% Calcium Chloride @ 1.35 cu.ft/sk w/ 6.39 gal/sk and displaced with fresh water to float collar.

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5. Pressure Control Equipment:

See COA

Install 8-5/8" x 5 1/2", 3000 psi. WP casinghead and adapter flange for BOPE (diagram Exhibit "E") and NU BOPE, a minimum compliance H2S Safety package should be in operation prior to drilling out the shoe. Pressure control equipment will consist of a 3000# hydraulically controlled blowout preventor and a 3000# choke manifold (as shown on Exhibit "F").

6. Circulating Medium:

The circulating medium will be fresh water down to 725' and brine water in the rest of the hole, once the water itself naturally with salt.

7. Auxilary Equipment:

Pickup 7-7/8" bit (HRS30C), National 6-1/2", 7-7/8 M/L 2.8 stage mud motor with stabilizer sleeve, stabilization (3 pt RR), shock sub and drill collars. Prior to drilling out cement, test casing, BOP and choke manifold to 1000 psi for 10 (ten) minutes with rig pumps (requires chart recorder).

8. Testing, Logging and Coring Program:

Formation testing will be made by a mud logger starting at 3000'. No drill stem test or coring are planned. It is planned that open hole logs will be run when total depth is reached.

A. Mud logging program. 1 man unit from int. casing to TD.
B. Electric logging program: CNL / LDT / CAL / GR,DLL / CAL / GR
C. No DSTs or cores are planned at this time.

9. Abnormal Pressures, Temperatures, Hydrogen Sulfide Gas or Potential Hazards:

None are anticipated based on wells drilled in the area.

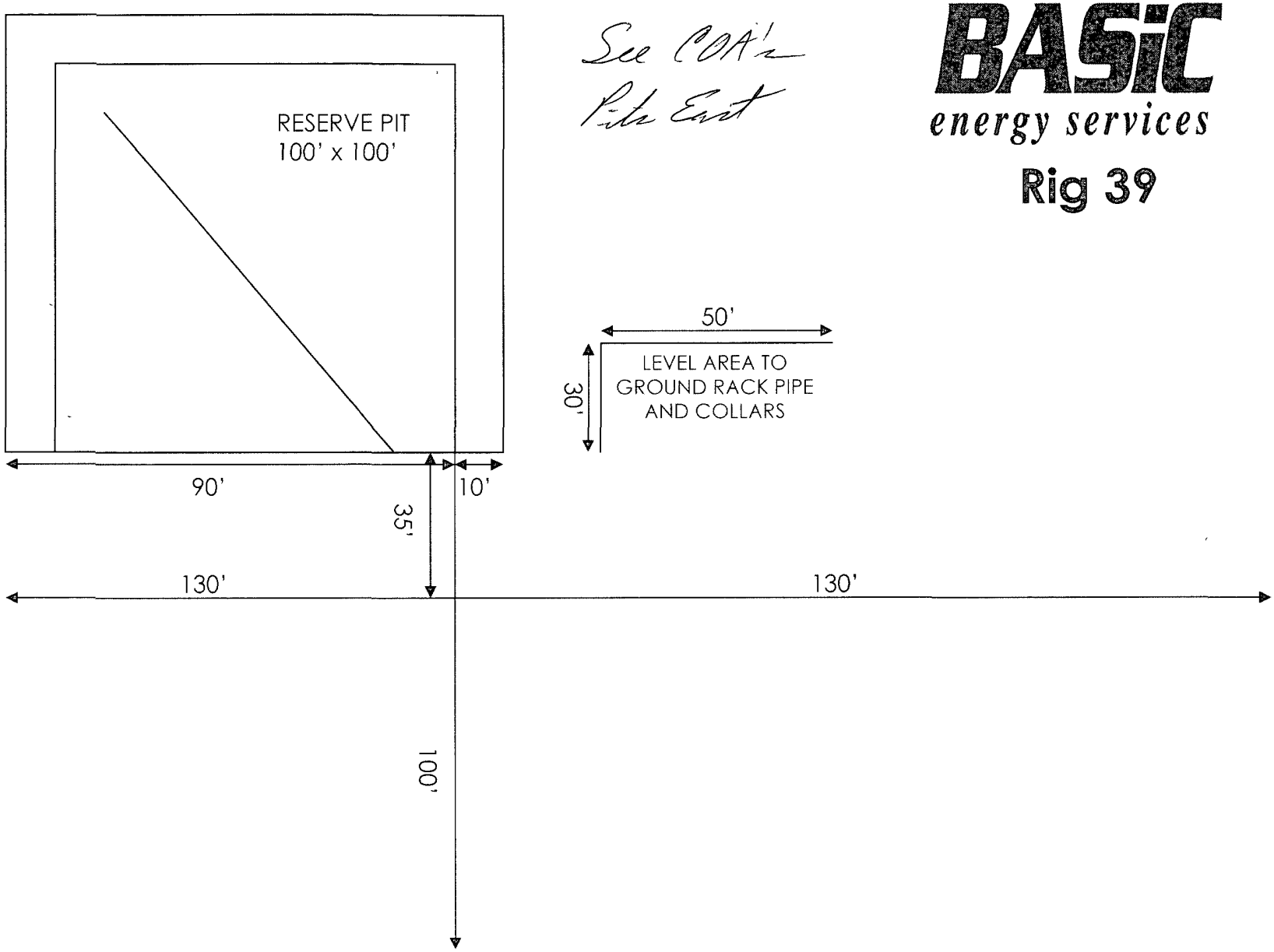
Estimated BHP: 3100# Estimated BHT: 128°

10. Anticipated Starting Date:

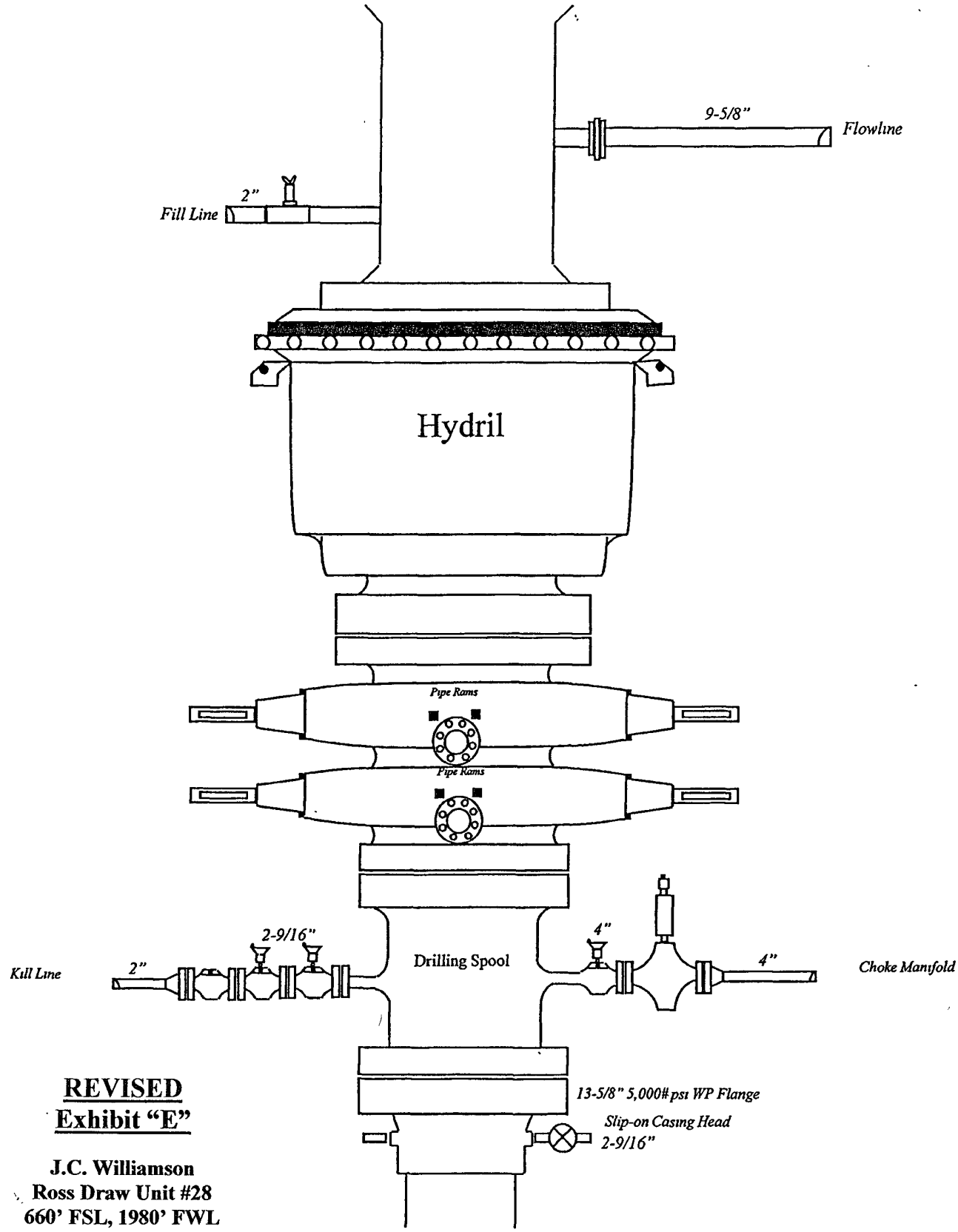
It has been planned that operations will commence on or about October 20, 2007.

See COA's
Pits East

BASIC
energy services
Rig 39



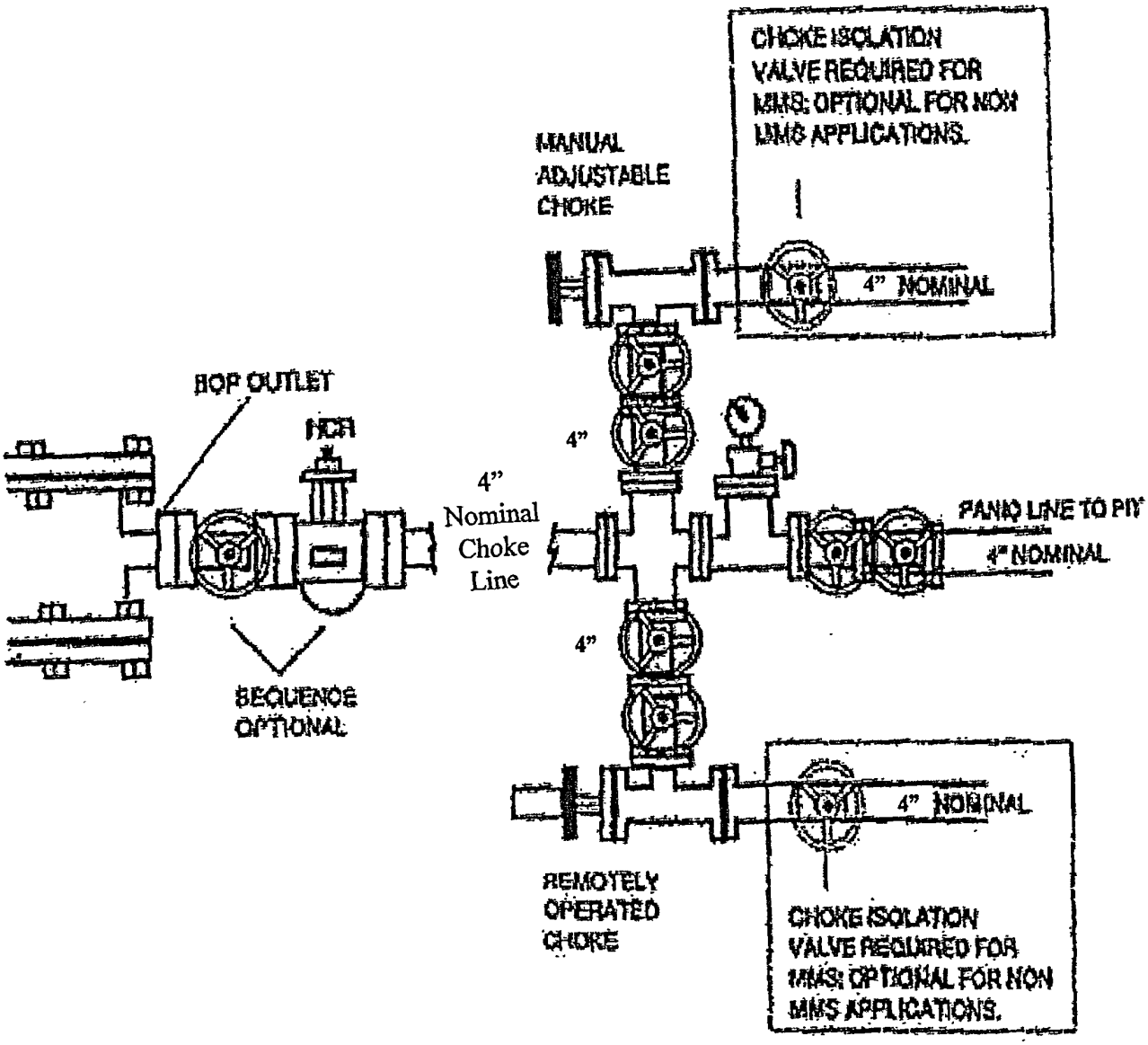
SR & A



REVISED
Exhibit "E"

J.C. Williamson
Ross Draw Unit #28
660' FSL, 1980' FWL
Section 26, T-26S, R-30E
Eddy County, New Mexico

DRILLING OPERATIONS
CHOKE MANIFOLD
5M SERVICE



REVISED
Exhibit "F"

J.C. Williamson
Ross Draw Unit #28
660' FSL, 1980' FWL
Section 26, T-26S, R-30E
Eddy County, New Mexico

REVISED
Surface Use and Operations Plan

J.C. Williamson
Well: Ross Draw Unit #28
660' FSL, 1980' FWL, Sec. 26, T26-S, R30-E
Eddy Co., NM
Lease No. NM

1. Existing Roads:

Exhibit "A" is a portion of a road map showing the location of the proposed well. Access to the location will be gained by using an existing road which comes out of the Jal-Orla cut of Highway (Hwy. 652).

2. Planned Access Road:

A. Surface Material: Some surfacing material may be needed for the prepared location, if necessary, 4" caliche, watered and compacted will be used. Surfacing materials where needed will be removed from an approved caliche pit, located one mile to the southwest of location.

B. Maximud Grade: Two percent.

C. Turnouts: None required.

D. Culverts: None required.

E. Cuts and Fills: None necessary. Only clearing and minor leveling will be required.

F. Gates and Cattle Guards: None required. No fences will need to be cut in conjunction with drilling operations.

3. Location of Existing Wells:

A. Existing wells in the area are shown on Exhibit "B".

4. Location of Existing and/or Proposed Facilities:

A. There are existing facilities owned and operated by J.C. Williamson that will be utilized by this lease, and these are the battery and treating facilities put on the lease in association with the Ross Draw #25.

B. If the proposed well is completed for production, the tank battery for this well will be the battery constructed for the Ross Draw #25 (Exhibit "G"), and this well will be connected to the existing battery by a surface flow line, crossing the lease, leading along existing roads to the Ross Draw #25 battery.

5. Location and Type of Water Supply:

Fresh water necessary for drilling will be purchased and hauled to the well site over existing and proposed roads. Produced brine water will be hauled to the location for make up water on the 7-7/8" portions of the hole or pumped to the location by surface flow line (3" fasline).

6. Source of Construction Materials:

The construction materials that may be needed can be obtained from an approved pit located in SW/4 SW/4 of Sc. 26, T-26S, R-30E, Eddy County, New Mexico.

7. Methods of Handling Waste Disposal:

A. Drill cuttings will be disposed of in the drilling pit, using existing pits on site.

B. Drilling fluid will be allowed to evaporate in the drilling pit until the pit is dry.

C. All pits will be fenced with normal fencing materials to prevent livestock from entering the area.

D. Water produced during testing of this well will be disposed of in the CRW SWD system.

E. Oil produced during test will be stored in test tanks until sold.

F. Current laws and regulations pertaining to the disposal of human waste will be complied with.

G. Trash, waste paper, garbage and junk will be contained in trash bins to prevent scattering by the wind and will be removed for deposit in an approved sanitary land fill within 30 days after finishing drilling and/or completion operations.

8. Ancillary Facilities:

A. None required.

9. Well Site Layout:

A. Exhibits "C" and "C-1" show the relative location and dimensions of the well pad, mud pit, trash pit and the location of the major rig components.

B. Only minor leveling of well site will be required, no significant cut and fill will be necessary.

10. Plans for Restoration of the Surface:

A. After completion of drilling and/or completion operations, all equipment and other material not needed for operations will be removed as soon as possible. Pits will be filled and the location cleaned of all trash and junk to leave the well site in as an aesthetically pleasing condition as possible.

B. Any unguarded pits containing fluids will be fenced until they are filled.

C. After abandonment, all equipment, trash and junk will be removed or buried and the location cleaned. Any special rehabilitation and/or special vegetation requirements of the surface management agency will be complied with and accomplished as expeditiously as possible.

11. Other Information:

A. Topography: the land surface is relatively level. Regional slope is to the southwest.

B. Soil: The top soil at the well is a gravely, loamy sand.

C. Flora and Fauna: The vegetative cover is sparse and consists of mesquite, grease wood, yucca, weeds and range grasses. Wildlife in the area is that typical of semi-arid desert land and includes coyotes, rabbits, rodents, reptiles, dove and quail.

D. Ponds and streams: The Pecos River is approximately six and one half miles west of the proposed well site. Red Bluff Reservoir is approximately four and one-half miles southwest of the well site.

E. Residence and other structures: There are no occupied dwellings within two miles of the proposed well site. There is a small windmill approximately one mile to the north of the location.

F. Archaeological, Historical and other Cultural Sites: (Exhibit "D") None observed in the area.

G. Land use: Cattle grazing and hunting in season.

H. Surface ownership: Federal.

12. Operator's Representative:

Representative responsible for assuring compliance with the approved Surface Use Plan is as follows:

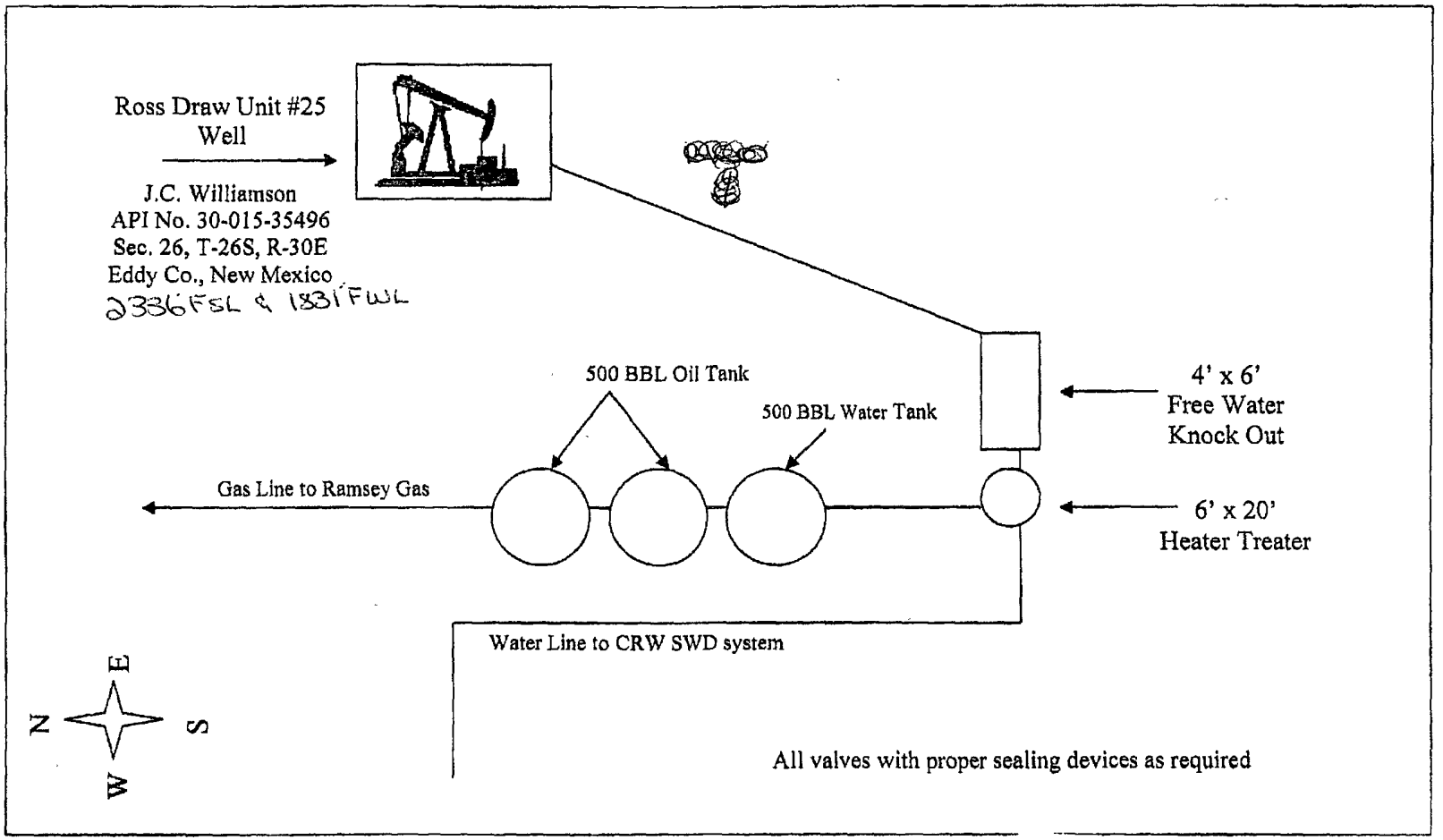
Tom M. Ragsdale
Siana Operating, LLC
P.O. Box 10303
Midland, Texas 79702
Office Ph. 432.687.6600

13. Certification:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in the plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by J.C. Williamson and its contractors and subcontractors in conformity with this plan and the term and conditions under which it is approved.

Date: October 9, 2007 By: Bobbi Brice - Agent

J.C. Williamson
Operator



Tank Battery Diagram

1400'

Exhibit "G"

J.C. Williamson
Ross Draw Unit #28
660' FSL, 1980' FWL
Section 26, T-26S, R-30E
Eddy County, New Mexico

VII. DRILLING

A. DRILLING OPERATIONS REQUIREMENTS

The BLM is to be notified a minimum of 2 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, (505) 361-2822

1. **Although no Hydrogen Sulfide has been reported in this township, it is always a potential hazard. If Hydrogen Sulfide is detected, please provide measurements 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. When floor controls are required, (3M or Greater) 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

1. The **13-3/8** inch surface casing shall be set **a minimum of 25 feet into the Rustler Anhydrite at approximately 725** 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 will be a minimum 18 hours for a water basin, 24 hours in the potash area, or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement).

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. **Pea gravel is not approved.**

d. If cement falls back, remedial action will be done prior to drilling out that string.

Possible lost circulation in the Redbeds and through the Castile Group.
Possible lost circulation in the Delaware and Bone Spring formations.
Medium cave/karst.

2. The minimum required fill of cement behind the **8-5/8** inch intermediate casing is:

   ☒ Cement to surface. If cement does not circulate see B.1.a-d above.

3. The minimum required fill of cement behind the **5-1/2** inch production casing is:

   ☒ Cement should tie-back at least 200 feet into previous casing string. Operator shall provide method of verification. **First stage to circulate.**

4. 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 and testing 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 **2000 (2M)** psi.

3. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the **8-5/8** intermediate casing shoe shall be **3000 (3M)** psi.

4. The appropriate BLM office shall be notified a minimum of 2 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. A variance to test the surface casing and BOP/BOPE to the reduced pressure of **1000** psi with the rig pumps is approved **for 30 minutes. Full pressure test required prior to drilling out of 8-5/8" intermediate casing.**

Engineer on call phone (after hours): Carlsbad: (505) 706-2779

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