

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No 1004-0137  
Expires July 31, 2010

**SUNDRY NOTICES AND REPORTS ON WELLS**  
**Do not use this form for proposals to drill or to re-enter an  
abandoned well. Use Form 3160-3 (APD) for such proposals.**

5. Lease Serial No.  
LC 031695B

6 If Indian, Allottee or Tribe Name

**SUBMIT IN TRIPLICATE – Other instructions on page 2.**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator  
ConocoPhillips Company

3a. Address  
P.O. Box 51810  
Midland, Texas 79710-1810

3b. Phone No. (include area code)  
432-688-6913

7 If Unit of CA/Agreement, Name and/or No

8. Well Name and No.  
Warren Unit #4

9. API Well No.  
30-025-07850

10. Field and Pool or Exploratory Area  
Warren McKee Simpson

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
1980' FSL & 660' FWL, Section 29, T20S, R38E

11. Country or Parish, State  
Lea County, NM

**12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input checked="" type="checkbox"/> Recomplete	<input type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

ConocoPhillips respectfully submits the attached procedure for review and approval to attempt to recomplete the above referenced well to the Devonian Formation with perforation from 7862-7912.

Warren

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)  
Justin C. Firkins

Title Regulatory Specialist

Signature

Date 01/29/2009

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

PETROLEUM ENGINEER

Title

Date

FEB 23 2009

Conditions of approval, if any, are attached. Approval of this notice 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.

Office

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)

Ka

## GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

## SPECIFIC INSTRUCTIONS

*Item 4* - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

*Item 13* - Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment.

## NOTICES

The Privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

**AUTHORITY:** 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

**PRINCIPAL PURPOSE:** The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c) and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

**ROUTINE USES:** Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

**EFFECT OF NOT PROVIDING THE INFORMATION:** Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

**BURDEN HOURS STATEMENT:** Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
301 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  
Geology, 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

<sup>1</sup> API Number 30-025-07850		<sup>2</sup> Pool Code 62990		<sup>3</sup> Pool Name Warren: Devonian	
<sup>4</sup> Property Code 31488		<sup>5</sup> Property Name Warren Unit			<sup>6</sup> Well Number 004
<sup>7</sup> OGRID No. 217817		<sup>8</sup> Operator Name ConocoPhillips Company			<sup>9</sup> Elevation 3518' GR

<sup>10</sup> Surface Location

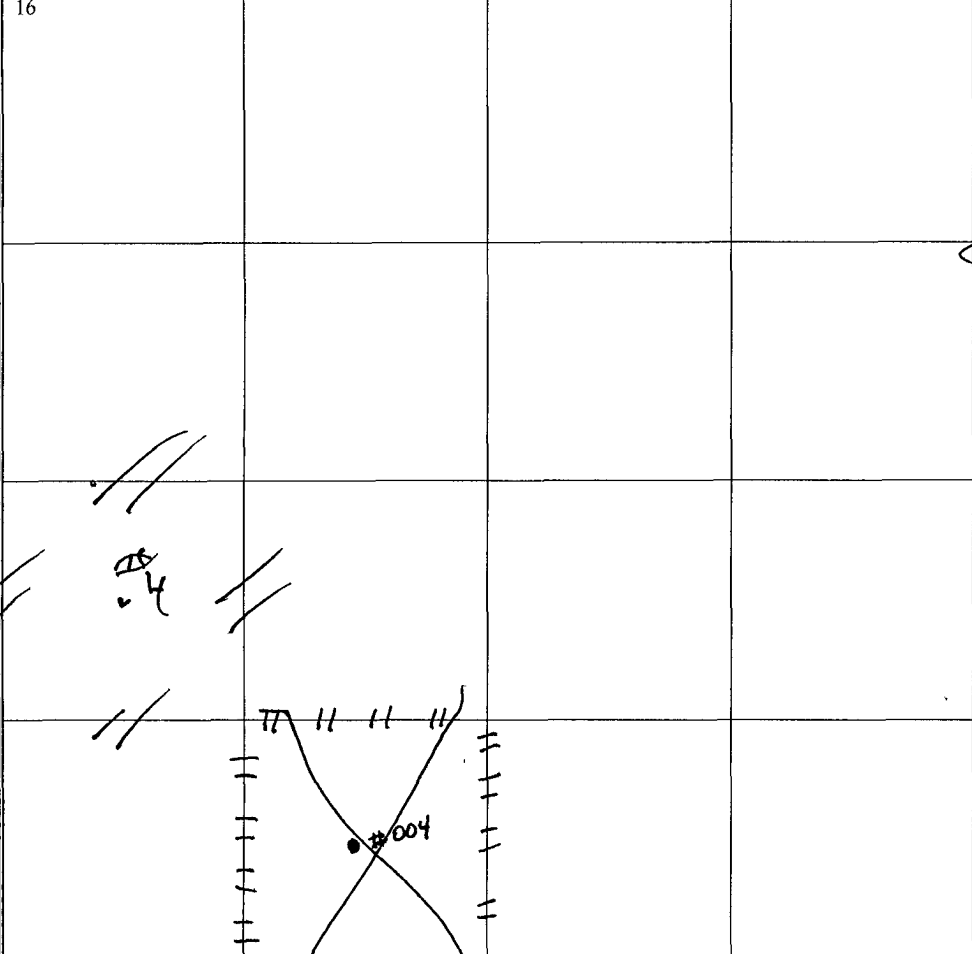
UL or lot no. N L	Section 29	Township 20S	Range 38E	Lot Idn	Feet from the 1980	North/South line South	Feet from the 660	East/West line West	County Lea, NM
----------------------	---------------	-----------------	--------------	---------	-----------------------	---------------------------	----------------------	------------------------	-------------------

<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 40	<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.

	<p><sup>16</sup></p>	<p><sup>17</sup> <b>OPERATOR CERTIFICATION</b> 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.</p> <p>Signature: <i>Justin C. Firkins</i> Date: 01/28/2009</p> <p>Justin C. Firkins Printed Name</p>
		<p><sup>18</sup> <b>SURVEYOR CERTIFICATION</b> 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.</p> <p>Date of Survey</p> <p>Signature and Seal of Professional Surveyor</p>
		<p>Certificate Number</p>

**WARREN UNIT #004**  
**WBS ELEMENT – WA5.CNM. \_\_\_\_\_**  
**Well View Well Name – WARREN UNIT #004**  
**Recompletion Procedure**

---

**December 16, 2008**

**Objective:** Recomplete to the Devonian formation.

COPC WI: 37.5%	COPC NRI: 32.55%	
Well Status: TA'd	Well Type: Oil Well	County: Lea
Area: Permian	Field: Warren	Team: Permian Oil
Venting: Permit not required	Flaring: Permit not required	H <sub>2</sub> S: Possible
Well Control: Class 2 Category 1 (post perforating & post stimulation)		

**IMPORTANCE OF SAFETY**

Safe operations are of utmost importance at all ConocoPhillips properties and facilities. To further this goal, the ConocoPhillips Supervisor at the location shall request tailgate safety meetings prior to initiation of work and also prior to any critical operations. All company, contract, and service personnel then present shall attend these tailgate safety meetings at the location. All parties shall review the proposed upcoming steps, procedures, and potentially hazardous situations. Occurrence of these meetings shall be recorded in the WellView daily report.

**History / Justification**

The purpose of the proposed project is to recomplete the Warren Unit #004, a temporarily abandoned well, to the Devonian formation. The subject well was originally drilled to 9230' in 1950 and completed in the McKee from 9046-9144'. Perfs were added from 9018-9034' in November 1981. The McKee produced 712,424 BO, 380,672 MCFG with 1,430,825 BW during its lifetime. The well was TA'd in June 2005 with an RBP set at 7681'.

An initial rate of 20 BOPD with 50 MCFD is projected based upon offset production in the SEMU #58, Warren Unit #7 and SEMU #10. Economics were performed using an exponential decline rate of 25% per year, a recompletion cost of \$395,000, a facilities cost of \$100,000, and an operating cost of \$7.35/BOE per year. ConocoPhillips owns a 37.5% WI and an NRI of 32.55% in the Devonian formation. This project yields an ATAX ROR of 25.2% with an NPV of \$41M at 13%.

Warren Unit #004  
Recomplete to Devonian Zone

**AFE Number:** WA5.CNM.\_\_\_\_

**API Number:** 30-025-07850

**Field:** Warren-McKee

**Location:** 1980' FSL & 660' FWL, Sec. 29, T-20-S, R-38-E, Lea County, NM

**Depths:** TD = 9,230' PBD = 8,947'

**Elevation:** GR = 3,517' KB = 3,530'

**Casing Data:**

**Existing & Proposed Casing, Tubing and Packer Information**

	OD (in)	Depth (ft)	ID/Drift (inches)	Weight t	Grade	Burst	Burst w/ 1.15 D.F.	Collapse (psi)	Collapse w/ 1.05 D.F.	Volume (Bbls/Ft)
Int. Csg.	9 $\frac{5}{8}$ "	2624'	8.835/8.679	36#/40	J-55/N-80	5750	5000	3090	2943	0758
Prod. Csg	7"	1889'	6.276/6.151	26#	J-55	4980	4330	4320	4114	.0382
	7"	9225'	6.366/6.241	23#	N-80	6340	5513	3830	3648	.0393
Prod. Tbg	2 $\frac{7}{8}$ "	5570±	2.441/2.347	6.5#	L-80	10570	9191	11170	10638	00579

Top of Cement: 7300' (Temperature Survey)

Casing Fluid: 2% KCl (0.438 psi/ft)

**Proposed Cased Hole Perforations**

Formation	Perforations (MD)	Frac Grad	Perf Feet	SPF	Phase	Zero Hole	Holes	Anticipated Reservoir Pressure	Reservoir Temp
Devonian	7862-7866'	.85	4	4	60°	No	16	3656	115°
	7880-7896'	.85	16	4	60°	No	64	3664	115°
	7908-7912'	.85	4	4	60°	No	16	3677	115°

Correlation Log: Schlumberger Compensated Neutron SGTE/CAL-R log dated 12/4/08

Gun Type: 3 $\frac{3}{8}$ " High Shot Density, 34JL Ultrajet, HMX 22.7g, (API 19B: Pen – 28.94", EHD - 0.37")

**Prepared by: David McPherson: Contract Production Engineer, Panhandle/Permian Group**  
**Mobile: 1(903) 316-4272 Home: 1(903) 894-3547**

## GENERAL NOTES

1. No project or task is to be performed unless it can be done safely and without harm to the environment. All work must comply with all State and Federal regulations and with COPC Safety and Environmental Policies.
2. Conduct daily safety meetings and review all procedures with all contractors prior to performing the operation.
3. Report all activity on the WellView Daily Completion Work-Over Report.
4. Insure contractors are familiar with and comply with all relevant COPC safety/environmental policies.
5. Spills are to be prevented. Utilize a vacuum truck as necessary.
- 6. All references to 2% KCl water is powdered 2% KCl.**
7. Throughout the entire completion process, any fluids from the well-bore that are displaced or produced must be sent through the flow-back equipment so that the fluids can be properly disposed.
8. Verify that all pressured lines and fittings meet or exceed the MPSP (Maximum Predicted Surface Pressure) for the treatment lines of **5500** psi for the pressure test during stimulation operations. Maximum treatment pressure during the frac jobs will be **5500** psi. MPSP from the zone should not be greater than 2000 psi before & after stimulation operations of the Devonian zone.
9. Well control for this well will be Class 2, Category 1 before and after stimulation. Expected Shut in Casing Pressures (SICP) before & after stimulation should not exceed 600 psi.

## Mid-Continent / Permian / Hobbs East Contact List:

Reservoir Engineer:	D. Pecore	832-486-2145
Geologist:	G. Borges	832-486-2606
Production Engineer:	J. Lowder	432-368-1609
Facilities Engineer Tech:	L. Johansen	432-368-1223
Operations Supervisor:	J. Coy	575-391-3127
Projects Planner:	D. Garrett	432-368-1410
Production Foreman:	V. Mackey	575-391-3129

**Recommended Procedure**

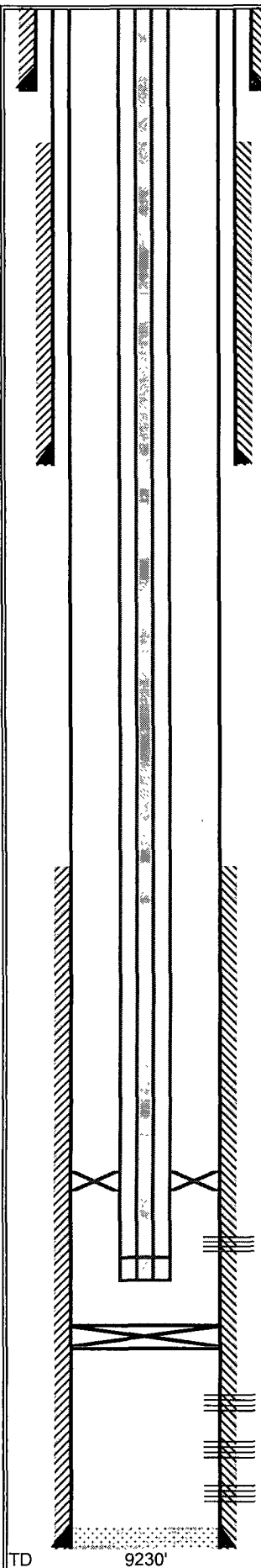
1. MIRU workover unit. ND wellhead and NU BOP's and test.
2. PU and RIH with 6½" bit on 2⅞", 6.5# production tubing as workstring to RBP @ 8947'±, circulating well clean with 2% KCL water. POOH with 2⅞" workstring and bit. Lay down drill bit.
3. MIRU Schlumberger wireline. RU 1000 psi lubricator. Correlate to Schlumberger Compensated Neutron SGTE/CAL-R log dated 12/4/08. Dump bail 35' of cement on top of RBP @ 8947'. Perforate the Devonian from 7862-7866', 7880-7896', and 7908-7912' using 3⅝" High Shot Density, 34JL Ultrajet, HMX 22.7g, (API 19B: Pen – 28.94", EHD - 0.37") loaded 4 SPF with 60° phasing (96 holes),
4. RDMO wireline and lubricator.
5. PU 3½" workstring and RIH with 7⅝" packer. Test 3½" workstring to 8,000 psi while RIH. Set packer at 7800'±.
6. Spot 1 frac tank and fill with 2% KCL. MIRU Schlumberger pumping services equipment. RU and test all lines to 7,500 psi and monitor for 5 min. Make sure the pressure does not decrease more than 300 psi over the 5 min. Pressure up casing / tubing annulus to 300 psi and monitor during job.
7. Perform acid frac with 6000 gals of 20% gelled HCl acid and 10000 gals of SXE acid at 20-30 BPM with 116± 1.1 SG Bioballs as per schedule.. Surge the well 2-3 times to dislodge balls. Shut down for 30 minutes to allow balls to fall.

Note: It is a ConocoPhillips policy to have shower facilities on location when using acid.

8. Obtain ISIP and 5 minute, 10 minute, and 15 minute shut-in pressures. Close Hydraulic Master Valve. RD Schlumberger Iron.
9. Unseat packer and reverse out any spent acid from tubing. Reset packer. RU swab unit and swab test the Abo. RD swab unit. Unseat packer and POOH with 5½" packer and 3½" workstring.

**NOTE: Contact Jack Lowder with results of swab test before proceeding.**

10. RIH with the 2⅞" production tubing (per tubing design in WellView). Place the EOT at 7943± with the tubing anchor at 7812'±. Maintain a dynamic fluid column (DFC) while running tubing. (Trickle some 2% KCl water down the tubing head valve.)
11. ND BOPs and NU wellhead. RIH with pump and rods (per rod design in WellView). Space and hang well on. Load tubing and check pump action.
12. RDMO well service rig. Release any ancillary equipment. Clean up location.
13. Turn well over to Operations. Place well on production. Report well tests on morning report. Place stabilized well test in FieldView. Contact chemical representative to place well on corrosion inhibition and scale squeeze program if needed. Submit change of status report.



13 3/8" @ 254' cmt w/ 250 sxs

Cmt to surface

TOC @ 400' by Temp Survey

9 5/8" @ 2624' cmt w/ 1915 sxs

TOC @ 7300' by Temp Survey

TAC @ 7812±

PERFS: 7862-7866', 7880-7896', 7908-7912'

35' cement on top of RBP

RBP @ 8947' 11/21/89

PERFS: 9018-9020', 9025-9029', 9032-9034' (11/25/81)

PERFS: 9046-9081'

PERFS: 9087-9144'

7" @ 9225' cmt w/ 286 sxs

## WARREN UNIT #004

### CURRENT WELLBORE DIAGRAM

API #: 30-025-07850

FIELD: Warren

CO ST: Lea, NM

AREA: Hobbs East

SECTION: 29

TOWNSHIP: 20S

RANGE: 38E

LOCATION: 1980' FSL & 660' FWL

DATES: SPUD: 5/24/50

IC: 7/25/50

LATEST RIG WORKOVER:

DIAGRAM REVISED: 08/22/08 by D. McPherson

	CASING			TUBING
Hole Size	17 1/2"	12 1/4"	8 3/4"	
Pipe Size	13 3/8"	9 5/8"	7"	2 7/8"
Weight	36#	36#	26#	6.5#
		40#	23#	
Grade				J-55
Thread				8rd
Depth	254'	1523'	1889'	7943'±
		2624'	9225'	

ELEVATION. GR - 3518', KB 3531'

TREE CONNECTION:

#### COMMENTS