Form 3160-5
(November 1994)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

BLM-CARLSBAD

FORM APPROVED
OMB No. 1004-0135
Expires July 31, 1996

C151

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.

SUBMIT IN TRIPLICATE - Other instructions on reverse side

5. Lease Serial No.
NM 0402170

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.
SW - 1034

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

8. Well Name and No.
Federal 22 Com No. 2

2. Name of Operator
Gruy Petroleum Management Co.

9. API Well No.
30-015-32486

3a. Address
P. O. Box 140907 Irving, TX 75014-0907

3b. Phone No. *(include area code)*
972-401-3466

10. Field and Pool, or Exploratory Area
White City; Penn (Gas)

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
990' FNL & 660' FEL Sec. 22 T24S - R26E
UT. A

11. County or Parish, State
Eddy Co., NM

RECEIVED
2003
OCD - ARTESIA

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

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☒ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other Set Production Casing
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ 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 shall 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 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

11/29/02 Received permision from Duncan Whitlock of BLM to run 7" casing with 4 1/2" liner

11/29/02 Ran 7" casing & set at 10,700'.

11/30/02 Unplugged casing. Cemented 1st stage, lead with 180 sx Interfill "H" + 1/4# Flocele + 5# Gilsonite + 0.1% HR-7 per sx. Tailed with 245 sx Super "H" Cement + 0.5% Halad-344 + 0.3% CFR-3 + 5# Gilsonite + 1# salt + 0.1% HR-7 + 1/4# Flocele per sx. Floats didn't hold. TOC 6977' 30' above DV tool

12/12/02 Set 4 1/2" liner w bottom @ 11,929' and top @ 10,469'

12/12/02 Cemented with 135 sx Super "H" cement + 1# Salt + 0.5% LAP-1 + 0.4% CFR-3 + 0.3% HR-7 0.25% D-Air 3000. Plugged down and bumped-floats held ok.

12/15/02 Set Liner Packer - PU 20' & reversed out 14 sx cement from liner top.

12/16/02 Released Patterson-UTI Rig at 12:00 noon to go to the Pennzoil Fed Com 3.

ACCEPTED FOR RECORD
JAN 1[illegible]
LES BABYAK
PETROLEUM ENGINEER

14. I hereby certify that the foregoing is true and correct
Name *(Printed/Typed)*
Natalie Krueger

Title
Production Assistant

Signature
Natalie Krueger

Date
January 10, 2003

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by	Title	Date
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, makes 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 reverse)

Gruy Petroleum Management Co.

Magnum Hunter Production, Inc.

Well History

November 14, 2002 Thru December 17, 2002

OPERATED

CARLSBAD

GRUY PETROLEUM MANAGEMENT CO
76878 FEDERAL 22 COM 2
EDDY, NM

900'FNL, 660'FEL, Sec 22, T24S, R26E

W.I. Pct BCP 12.19 %
W.I. Pct ACP 12.19 %
Morrow / 12,000'

11/14/2002 Depth 3,770
Progress 556
AFE: 22288 Present Operation: Drlg

Rig repair on kick pads on drum Service rig Install drilling line on drum & install wear bushing in "B" section of well head PU, make up & TIH with Bit # 3 & BHA PU & TIH with 6 - 6 3/4" DC's & X~O sub Test motor @ 500# - OK PU & TIH with 24 - 6 1/8" DC's TIH with DP out of derrick - tagged up @ 3,164' - LD 15 jts. DP Test casing, well head & BOP to 2,200# for 30 mins. - OK Drill plug, float collar, cement & shoe Drill from 3,214' to 3,220' (on formation at 4:15 PM 11/13/02) (156 RPM motor & 35 RPM rotary) Test formation to 10.5# /gal. mud equivalent with 350# pressure with 8.4# /gal. fluid in hole - OK Drill from 3,220' to 3,758' (156 RPM motor & 40 RPM rotary) WLS @ 3,688' = 3/4o Drill from 3,758' to 3,770' (156 RPM motor & 40 RPM rotary)

11/15/2002 Depth 4,664
Progress 894
AFE: 22288 Present Operation: Drlg

Drill from 3,770' to 4,073' (156 RPM motor & 40 RPM rotary) Service rig Drill from 4,073' to 4,262' (156 RPM motor & 40 RPM rotary) WLS @ 4,185' = 3/4o Drill from 4,262' to 4,664' (156 RPM motor & 40 RPM rotary)

11/16/2002 Depth 5,447
Progress 783
AFE: 22288 Present Operation: Drlg

Drill from 4,664' to 4,673' (156 RPM motor & 40 RPM rotary) WLS @ 4,596' = 3/4o Drill from 4,673' to 4,959' (156 RPM motor & 40 RPM rotary) Service rig - work BOP & hydraulic choke - pump through & test mud / gas separator - OK Drill from 4,959' to 5,148' (156 RPM motor & 40 RPM rotary) WLS @ 5,071' = 1o Drill from 5,148' to 5,447' (156 RPM motor & 40 RPM rotary)

11/17/2002 Depth 6,280
Progress 833
AFE: 22288 Present Operation: Drlg

Drill from 5,447' to 5,622' (156 RPM motor & 40 RPM rotary - 45,000# bit wt.) Service rig WLS @ 5,545' = 1/2o Drill from 5,622' to 6,097' (156 RPM motor & 40 RPM rotary - 45,000# to 50,000# bit wt.) WLS @ 6,020' = 2o Drill from 6,097' to 6,280' (156 RPM motor & 40 RPM rotary - 45,000# bit wt.)

11/18/2002 Depth 6,840
Progress 560
AFE: 22288 Present Operation: Drlg

Drill from 6,280' to 6,286' (156 RPM motor & 40 RPM rotary - 45,000# bit wt.) Drop Totco @ 6,209' = 1o - trip out for bit - checked stabilizers & tri-collar for gauge - OK - BHR 1/8" out of gauge - changed

out same with new BHR - Bit # 3 8 3/4" Security XS45S SN# 10591146 3-13's in @ 3,214' out @ 6,286' cut 3,0[illegible] in 82 1/2 hrs. condition = T5 B6 3/16" out [illegible] uge Service rig & work BOP TIH with Bit # 4 & new motor Wash & ream 110' to bottom - no fill Drill from 6,286' to 6,759' (153 RPM motor & 40 RPM rotary - 45,000# bit wt.) WLS @ 6,686' = 1/2o Drill from 6,759' to 6,840' (153 RPM motor & 40 RPM rotary - 45,000# bit wt.)

11/19/2002 Depth 7,594
Progress 754
AFE: 22288 Present Operation: Drlg

Drill from 6,840' to 7,076' (153 RPM motor & 40 RPM rotary - 45,000# bit wt.) Service rig Drill from 7,076' to 7,234' (153 RPM motor & 45 RPM rotary - 50,000# bit wt.) WLS @ 7,157' = 3/4o Drill from 7,234' to 7,594' (153 RPM motor & 45 RPM rotary - 50,000# bit wt.)

11/20/2002 Depth 8,298
Progress 704
AFE: 22288 Present Operation: Drlg

Drill from 7,594' to 7,707' (153 RPM motor & 45 RPM rotary - 50,000# bit wt.) Service rig WLS @ 7,630' = 1 3/4o Drill from 7,707' to 8,182' (153 RPM motor & 40 RPM rotary - 45,000# bit wt.) WLS @ 8,105" = 1/4o Drill from 8,182' to 8,298' (153 RPM motor & 40 RPM rotary - 45,000# bit wt.)

11/21/2002 Depth 8,906
Progress 608
AFE: 22288 Present Operation: Drlg

Drill from 8,298' to 8,466' (149 RPM motor & 40 RPM rotary - 47,000# bit wt.) Service rig Drill from 8,466' to 8,656' (151 RPM motor & 40 RPM rotary - 47,000# bit wt.) WLS @ 8,579' = 1/4o Drill from 8,656' to 8,906' (152 RPM motor & 40 RPM rotary - 48,000# bit wt.)

11/22/2002 Depth 9,192
Progress 286
AFE: 22288 Present Operation: Drlg

Drill from 8,906' to 9,004' (152 RPM motor & 40 RPM rotary - 48,000# bit wt.) - displace well with 9.8 #/gal. brine water from inside reserve pit Service rig - install rotating head rubber & drive bushing Drop Totco @ 9,004' = 1o & trip out for bit - checked stab., tri-collar & BHR for gauge - OK - LD motor & Bit # 4 8 3/4" HTC HR-S44C 3-13's in @ 6,286' out @ 9,004' cut 2,718' in 88 1/2 hrs. condition T2 B3 In gauge - worked BOP's - PU BlackMax Motor & Bit # 5 - tested motor - OK TIH with Bit # 5 Cut drilling line Continue TIH with Bit # 5 & install rotating head rubber Wash 47' to bottom - no fill Drill from 9,004' to 9,192' (95 RPM motor & 45 RPM rotary - 47,000# bit wt.) BGG = 302 units - max. formation gas = 1,469 units - max. conn. gas = 1,620 units - trip gas = 448 units - lag = 58 mins. - no shows

11/23/2002 Depth 9,719
Progress 527
AFE: 22288 Present Operation: Drilling

Drill from 9,192' to 9,384' (95 RPM motor & 45 RPM rotary - 47,000# bit wt.) Service rig Drill from 9,384' to 9,605' (100 RPM motor & 45 RPM rotary - 47,000# bit wt.) WLS @ 9,528' = bad picture Drill from 9,605' to 9,637' (98 RPM motor & 45 RPM rotary - 47,000# bit wt.) WLS @ 9,529' = 1o Drill from 9,637' to 9,719' (98 RPM motor & 45 RPM rotary - 47,000# bit wt.)

11/24/2002 Depth 10,136
Progress 417
AFE: 22288 Present Operation: Drilling

Drill from 9,719' to 9,858' (98 RPM motor & 45 RPM rotary - 47,000# bit wt.) Service rig Drill from 9,858' to 10,080' (98 RPM motor & 45 RPM rotary - 47,000# bit wt.) - returned to the steel pits & started mud up at 10,008' WLS @ 10,003' = 2o Drill from 10,080' to 10,136' (101 RPM motor & 45 RPM rotary - 40,000# to 42,000# bit wt.)

11/25/2002 Depth 10,430

		Progress	294
AFE:	22288	Present Operat	Circulating well on choke

Drill from 10,136' to 10,260' (101 RPM motor & 45 RPM rotary - 45,000# bit wt.) Service rig Drill from 10,260' to 10,430' (102 RPM motor & 45 RPM rotary - 46,000# bit wt.) - drilling break from 10,427' to 10,430' - picked up & checked for flow - well flowing - shut well in 2 bbl. gain in pits - 15 min. SIDP = 150# - 30 min. SIDP = 0# - 15 min. & 30 min. SICP = 140# attempted to bring pump up to slow kill rate & pressure - loosing circulation - opened choke to 1/2 open & got full circulation - circulating out gas with casing pressure going to a max. of 700# while circulating out gas on choke through mud / gas separator with 15' to 30' gas flare .

11/26/2002		Depth	10,586
		Progress	156
AFE:	22288	Present Operation:	Drilling

Circulating out gas on choke through mud / gas separator while raising mud weight from 9.6 # /gal. to 9.9#/gal. - 15' to 30' gas flare at 10,430' Drill from 10,430' to 10,491' (103 RPM motor & 45 RPM rotary - 46,000# bit wt.) with a 15' to 30' gas flare while continuing to raise mud wt. Change out MD Totco Flow Sensor Drill from 10,491' to 10,586' (103 RPM motor & 45 RPM rotary - 46,000# bit wt.) with a 15' to 25' gas flare while continuing to raise mud wt. from 9.9#/gal. to 10.2 #/gal. (maximum weight with salt) - well flowing on connections

11/27/2002		Depth	10,632
		Progress	46
AFE:	22288	Present Operation:	Mixing mud and LCM

Drill from 10,586' to 10,595' (103 RPM motor & 45 RPM rotary - 46,000# bit wt.) with a 15' to 25' gas flare - well flowing on connections - called for bulk barite to bring up mud wt. Dog house WLS @ 10,477' = 1 3/4o (didn't run survey for safety reasons due to gas flow) Drill from 10,595' to 10,626' (103 RPM motor & 45 RPM rotary - 46,000# bit wt.) with a 15' to 25' gas flare - well flowing on connections - Drilling break from 10,611' to 10,617' - picked up & checked for flow - no more flow than normal - at 10,626' well started kicking (10.2#/gal. mud) & started running mud pits over on location - pulled up & shut well in - 0# SIDP & 800# SICP Circulated well through choke while mixing barite to bring weight up from 10.2#/gal. to 11.0#/gal. - started loosing returns - mixed LCM - 30' to 40' gas flare falling off to 10' gas flare Drill from 10,626' to 10,632' (100 RPM motor & 45 RPM rotary -
46,000# bit wt.) - lost circulation - 3' gas flare Pulled up 40' off bottom - building mud volume & mixing LCM - working pipe - pipe is free - no gas flare

11/28/2002		Depth	10,727
		Progress	95
AFE:	22288	Present Operation:	Drlg

40' off bottom - building mud volume & mixing LCM - working pipe - pipe is free - no gas flare Started washing to bottom with returns & gas - 30' of fill - rotating head rubber leaking - gaining fluid in pits - switched through choke manifold Change out rotating head rubber Service rig Wash & ream 30' of hard fill while drilling through choke manifold Drill from 10,632' to 10,686' switched back to flow line (87 to 53 RPM motor & 45 to 50 RPM rotary - 46,000# bit wt.) while mixing LCM & barite trying to bring mud wt. to 10.6#/gal. - lost circulation Pick up 40' off bottom & build mud volume & mix LCM - go
back to bottom - no fill Drill from 10,686' to 10,694' (87 RPM motor & 50 RPM rotary - 46,000# bit wt.) - gas busted flow line Pick up 40' off bottom - SI well & repair flow line - 450# SICP Circulate bottoms up through choke manifold & go back to bottom 30' to 40' gas flare - no fill Drill from 10,694' to 10,727' (100 RPM motor & 45 RPM rotary - 46,000# bit wt.) - mixing LCM - 10' to 20' gas flare - flowing on connections - 10.3#/gal. mud wt. in & out BGG = 85 units - max. connection gas = 1,600 units - lag = 59 mins.

11/29/2002		Depth	10,744
		Progress	17
AFE:	22288	Present Operation:	CIRC & Mixing LCM

Drill from 10,727' to 10,744' TD (100 RPM motor & 45 RPM rotary - 46,000# bit wt.) - mixing LCM - 10' to 20' gas flare - flowing on connections - 10.3#/gal. mud wt. in & out Service rig Circulate & condition mud - mixing LCM - slowly mixing barite to bring mud weight from 10.3#/gal. to 10.6 #/gal. in & out to the

point that the hole was starting to take fluid, then stopped taking fluid TH stand short trip out & TIH - 10,000# more normal drag - no fluid displacement going in hole Wash 30' to bottom - 3' of fill Circulate botto... up - very little gas - no pit gain - hole is startin... to take fluid Circulate & condition mud - mixing LCM - hole seeps at times, then stops - mixing 180 bbl. heavy weight mud spotting pill in premix pit to 14.3#/gal.

11/30/2002 Depth 10,744
Progress 0
AFE: 22288 Present Operation: Working Stuck Casing

Circulate & condition mud - spotted 180 bbls. of 14.3#/gal. mud from 10,744' to 8,700' - well is dead Service rig Drop Totco @ 10,744' = 1 3/4o & trip out standing back DP - break kelly - well is dead RU LD machine & POOH LD DC's, BHA, motor & bit - well is dead - pulled wear bushing RU casing crew & ran 7" casing (See Casing Detail) - ran 10 Halliburton centralizers - well started flowing 10 to 14 BPH rate - installed 7" casing stripper head - hit bridges & had to circulate & wash down from 6,394' to 6,433' & 6,700' to 6,735' - set 7" casing at 10,700' - 44' off bottom RU Halliburton & attempted to break circulation going as high as 5,000# - 7" casing is stuck & plugged - worked stuck casing for 2 hrs. & finally freed up

12/01/2002 Depth 10,744
Progress 0
AFE: 22288 Present Operation: LD 4-1/2" DP from Derrick

Worked to unplug casing to as high as 4,000# & surging back - finally got floats unplugged Halliburton cemented 1st stage (Lead) 180 sx Interfill "H" + 1/4# Flocele + 5# Gilsonite + 0.1% HR-7 per sx, followed by (Tail) 245 sx Super "H" Cement + 0.5% Halad-344 + 0.3% CFR-3 + 5# Gilsonite, 1# Salt + 0.1% HR-7 + 1/4# Flocele per sx - plug down & bumped with 1,230# at 8:35 AM (CST) 11/30/02 - floats didn't hold - surged floats several times - no success
Wait for tail cement to set so we could drop bomb to set DV Packer - back side flowing - closed hydril & SI well to hold cement in place - 125# SICP Drop bomb & set DV Packer at 7,007' to 7,010' with 3,000# & attempted to open DV Tool with no success to as high as 6,000# - DV Tool is probably open, but cement has probably set up - pump time on the lead cement was 4 hrs. - pump time on the tail cement was 2 hrs. 20 mins. Pressured up to 500# on 7" casing & closed BOP Hydril to keep back side from flowing to allow cement to set up Bleed off pressure - back side still flows small stream - ND & PU BOP's - set 7" casing slips in 238,000# - cut off 7" casing high & beveled cut - set BOP's back down & NU BOP's RU laydown machine & 4 1/2" power tongs - LD 4 1/2" DP out of derrick in mouse hole

12/02/2002 Depth 10,744
Progress 0
AFE: 22288 Present Operation: Drlg on Barite Bridge

LD 4 1/2" DP out of derrick in mouse hole & LD kelly Service rig Change BOP pipe rams from 4 1/2" to 3 1/2" RU tester & tested pipe rams, blind rams, hydril , choke manifold & associated equipment to 5,000#, BLM was notified, but did not witness the test RU DP power tongs & laydown machine - PU & TIH with Bit #6, bit sub, 30 - 4 3/4" DC's & 3 1/2" DP tagged up on DV Packer @ 7,014' - set 65,000# down on closing sleeve to close DV Tool - saw some movement, so DV Tool should be closed now Drill DV Tool & bomb Circulate Continue TIH PU 3 1/2" DP - tagged up at 10,347' - RD laydown machine & power tongs Drill & ream on barite bridge & the remainder of the DV Tool bomb at 10,347'

12/03/2002 Depth 10,780
Progress 36
AFE: 22288 Present Operation: Drlg

Drill, ream & wash on barite bridges from 10,347' to 10,650' Drill cement plug, float collar & cement to 10,680' - install rotating head rubber & drive bushing - drilled cement from 10,680' & shoe at 10,700' Wash & ream from 10,700' to 10,744' - 20' of fill - no gas or flow Circulate bottoms up Service rig Trip out - LD mill tooth Bit # 6 (condition T2 B2 in gauge) & bit sub - PU motor, BHA & Bit # 7 TIH Install rotating head rubber & cut drilling line Finish TIH with Bit # 7 Wash to bottom - 2' of fill Drill from 10,744' to 10,780' (128 motor RPM & 34 rotary RPM - 10,000# to 15,000# bit wt.) removing LCM over shale shaker, cleaning - jetting pits & building mud volume to bring down mud weight BGG = 1 unit - max. formation gas = 9 units - trip gas = 261 units - lag = 59 mins. No shows

12/04/2002 Depth 10,915

		Progress	133
AFE:	22288	Present Operat	Drlg

Drilling from 10785' - 10801'. Rig Service. Drilling from 10801' - 10865'. Pulled up to make connection and noticed 40 - 50k drag when tool joint came above rotary table. Pull 2 stands and get bit inside casing. Slowly lower string into open hole and tag up 30' below shoe. Pushed object downhole until 10' off bottom and picked up kelly. Took 10 - 15k weight to wash to bottom. Picked up and had no more problems. Drilling from 10865' - 10915' with 24k WOB and 34 RPM rotary. Daily ROP - 5.8'/hr.

12/05/2002		Depth	11,048
		Progress	133
AFE:	22288	Present Operation:	Drlg

Drilling from 10915' - 10928'. Made connection and could not get bushing in rotary table or pick up string. Work string up to 230K making slow progress until able to see movement. Worked up 15' and laydown joint of pipe. Pulled loose at 250K and set kelly back. Pulled 3 stands into casing with 25 - 30K drag. Mixed 100 bbls of 100 viscosity sweep. Rig Service. Trip in hole with 3 stands pushing piece of cement to 10880'. Wash 48' to bottom with 2 - 3' of soft fill. Drilling from 10928' - 11048'. Circulated out fair amount of cement with HiVisc sweep and divert to premix pit for later use. Have not seen any problems with drag on connections since 10928'. Bled in 200 bbls of light mud into system and brought weight down to 10#/gal. Daily ROP - 7'/hr. BGG - 5u / Max Formation Gas - 5u / Max Connection Gas - 83u.

12/06/2002		Depth	11,251
		Progress	203
AFE:	22288	Present Operation:	Drlg

Drilling from 11048' - 11119'. BOP Drill. Rig Service. Drilling from 11119' - 11251'. Daily ROP - 8.5'/hr / Cum ROP - 6.7'/hr.

12/07/2002		Depth	11,368
		Progress	117
AFE:	22288	Present Operation:	Drlg

Motor stalled on connection. Mix slug for trip and pump. Drop survey tool. Trip out of hole for bit and motor. Change out BHA. Trip in hole to 11180'. Ream 70' to bottom. Drilling from 11252' - 11368'. Daily ROP - 8.8'/hr.

12/08/2002		Depth	11,625
		Progress	257
AFE:	22288	Present Operation:	Drlg

Drilling from 11382' - 11438'. Rig Service. Drilling from 11438' - 11625'. Daily ROP - 10.8'/hr / Cum ROP - 10.1'/hr.

12/09/2002		Depth	11,801
		Progress	176
AFE:	22288	Present Operation:	Drlg

Drilling from 11625' - 11693'. Rig Service. Drilling from 11693' - 11788'. ROP slowed from 11'/hr down to 7 - 8'/hr in hard sand, shale, and lime. Wireline Survey at 11740' - 1.5 degrees. Drilling from 11788' - 11801'. Daily ROP - 7.7'/hr / Cum ROP - 9.2'/hr.

12/10/2002		Depth	11,822
		Progress	21
AFE:	22288	Present Operation:	TIH with Bit #9

Drilling from 11801' - 11822'. ROP slowing to 20 min/ft. Circulate samples for mudlogger and mix slug for trip. Last sample had 60% Shale / 20 Lm / 20 Sd. Rig Service. Trip out of hole for bit. Change bits and guage RMR and stabilizer. Trip in hole to 11750'. Kelly up to W&R to bottom and drillstring pressured up to 2200 psi at 28 spm. Attempt to "unplug bit" with no success. Trip out of hole 20 stands. High drum chain broke. Repair high drum chain. Trip out of hole. Breakout bit and found motor locked up. Check for junk inside motor and found none. LD motor. Trip in hole to 6000'. Break circulation at 6000'.

Trip in hole to approximately 9800' at report time. BGG - 12u / Max Form Gas - 41u at 11790' / Max Conn Gas - 23u's Nag time - 62 minutes. Head

12/11/2002 Depth 11,930
Progress 108
AFE: 22288 Present Operation: Drlg

TIH with Bit # 9 Service rig Wash 100' to bottom - no fill Drill from 11,822' to 11,930' TD (Reached TD of 6 1/8" hole at 5:00 AM (CST) 12/11/2002) Circulate & condition mud

12/12/2002 Depth 11,930
Progress 0
AFE: 22288 Present Operation: Running Open Hole Logs

Circulate & condition mud - cut 84' of drilling line Pump slug & drop Totco @ 11,930' = 1 1/2o Service rig Trip out of hole & LD IBS, reamer & bit RU Halliburton & run open hole logs - DLL, SDL, DSN, CBL, GR Caliper & RFT, Full Wave Sonic, GR Logger's TD = 11,912'

12/13/2002 Depth 11,930
Progress 0
AFE: 22288 Present Operation: Cementing 4 1/2" liner

Finish running open hole logs & RD Halliburton logging truck Service rig TIH to 6,000' Break circulation at 6,000' Continue TIH Wash 50' to bottom - no fill Circulate & condition mud POOH RU laydown machine & run 4 1/2" liner (See Casing Detail) with 41 B&L Equip. Turbo Agitators - RD casing crew & laydown machine TIH with 3 1/2" DP - 2 mins. per stand, filling DP every 15 stands Install rotating head rubber & RU TIW cementing manifold head - TIH to 11,930' - no fill Circulate bottoms up Set TIW Liner Hanger in 16,000# - bottom of liner at 11,929' KB - top at 10,469' KB - got off liner & set back down with 15,000# weight Halliburton cemented 4 1/2" liner with 135 sx Super "H" cement + 1# Salt + 0.5% LAP-1 + 0.4% CFR-3 + 0.3% HR-7 + 0.25% D-AIR 3000 - plug down & bumped with 2,200# at 5:55 AM (CST) 12/13/02 - floats held OK

12/14/2002
Maintenance
AFE: 22288 Present Operation: Cementing liner

Finish running open hole logs & RD Halliburton logging truck Service rig TIH to 6,000' Break circulation at 6,000' Continue TIH Wash 50' to bottom - no fill Circulate & condition mud - slug DP & drop 2" OD TIW rabbit with 100' wire line tail POOH RU laydown machine & run 4 1/2" liner (See Casing Detail) with 41 B&L Equip. Turbo Agitators - RD casing crew & laydown machine TIH with 3 1/2" DP - 2 mins. per stand, filling DP every 15 stands Install rotating head rubber & RU TIW cementing manifold head - TIH to 11,930' - no fill Circulate bottoms up Set TIW Liner Hanger in 16,000# - bottom of liner at 11,929' KB - top at 10,469' KB - got off liner & set back down with 15,000# weight Halliburton cemented 4 1/2" liner with 135 sx Super "H" cement + 1# Salt + 0.5% LAP-1 + 0.4% CFR-3 + 0.3% HR-7 + 0.25% D-AIR 3000 - plug down & bumped with 2,200# at 5:55 AM (CST) 12/13/02 - floats held OK

12/15/2002 Depth 11,930
Progress 0
AFE: 22288 Present Operation: ND BOP's

BLM was notified of cement job - didn't witness job - set Liner Packer - PU 20' & reversed out 14 sx cement from liner top Test 4 1/2" liner, 7" casing, well head & BOP to 1,000# - OK RD Halliburton Chain out of hole & LD TIW liner setting tool TIH with rerun Bit # 6 - 6 1/8" HTC GT-1 mill tooth bit, bit sub, 4 3/4" DC's & 3 1/2" DP Dress off 4 1/2" liner top at 10,469' KB & displace mud from well at 10,469' with fresh water Test 4 1/2" liner top to 1,000# - OK RU laydown machine & POOH LD 3 1/2" DP POOH LD 30 - 4 3/4" DC's & RD laydown machine Break down kelly & LD same - LD & load out all rental items for return to Knight Oil Tools Change BOP pipe rams from 3 1/2" to 4 1/2" & ND BOP's & choke manifold

12/16/2002
Maintenance
AFE: 22288 Present Operation: RD

ND & LD BOP's NU all FT 5,000# X 7 1/16" 5,000# Tubing Head & test head to 4,000# - OK Jet & clean steel pits - Rele d Patterson - UTI Rig # 75 at 12:00 Noon (CS 12/14/2002 to go to the Pennzoil Federal Com # . .D Patterson - UTI Rig # 75

12/17/2002
Completion
AFE: 22288

Present Operation:

WOC

Daily Cost: $0
Cumulative Costs: $1,246,425