

1 bopd 7 mcfpd
6WL 100% URI 82.35%

Plan 90 mcfpd (incremental)

LEASE & WELL NO. White 27-5
FIELD NAME Wattenberg
LOCATION NENW Section 27, T5N, R64W 638' FNL & 1976' FWL

FORMER NAME _____
COUNTY & STATE Weld, CO
API NO. 05-123-16108

K.B. ELEV. 4599'
D.F. ELEV. _____
GROUND LEVEL 4589'
CORR. -10'

SURFACE CASING
SIZE 8-5/8" WEIGHT 24.# DEPTH 325'
GRADE _____ SX. CMT. 300 sx TOC @ Surface

INTERMEDIATE CASING
SIZE _____ WEIGHT _____ DEPTH _____
GRADE _____ SX. CMT. _____ TOC @ _____

PRODUCTION CASING
SIZE 3-1/2" WEIGHT 9.3# DEPTH 6910'
GRADE _____
1st Stage: SX. CMT. 850 sx TOC @ 3945' Calc.
2nd Stage: SX. CMT. _____ TOC @ _____

WELL HISTORY

SPUD DATE 9/30/92
COMPLETION DATE: 10/16/92
CORES TAKEN:

Oct-92 Divertfrac Codell w/15,000 gal @ 8 bpm, SD for 1 hr
resume frac w/49,000 gal YT500HT x-link, 4500#
100 mesh & 197300# 20/40. Injected frac ball.
Displaced w/1000 gals 7-1/2% HCL, 64 bbls 2% KCL
water. Landed ball @ 4120#. ISIP 3700#. Avg rate
12 BPM @ 3800#. SD 1-1/2 hrs. Frac Niobrara
w/67000 gals YT500HT x-link, 10000# 100 mesh,
170060# 20/40 @ avg rate 20 bpm, 4800#.
Displace w/53 bbls 2% KCL water. ISIP 3660#,
15 minute 3500#.

Log Tops (from PI)		
	MD	Subsea
Parkman	3454'	
Sussex	4206'	
Niobrara	6484'	
Codell	6767'	

TUBING No records of tbg in hole
SIZE _____

EOT @ _____
Packer @ _____
S.N. @ _____

Niobrara Perfs @ 6488', 94', 98'-6503'
6592'-6600' & 6583'-87', 6652', 58', & 71'

1 spf

Frac Ring @ 6749'

Codell Perfs @ 6768'-74' & 76'-78'

4 spf

PBTD @ 6879'
TD @ 6910'

WELL: WHITE #27-5 (D/W)
PROJECT: PPDC

STATE: CO
COUNTY: WELD

Location: STAKED 8/6/92 BY HOLLOWAY & HOLLOWAY @ 638' FNL & 1976' FWL (NE/NW) SEC 27-5N-64W, WELD COUNTY, COLORADO. ELEVATION: 4589' GL. EXETER DRILLING RIG #2 W/10'KB.

Directions: FROM GREELEY, CO - 6 MILES EAST ON U.S. HIGHWAY 34 TO WELD COUNTY ROAD #55. 1 MILE SOUTH TO JUNCTION WCR #55 & WCR #54. CONTINUE SOUTH 3/8 MILE ON WCR #55, EAST INTO, APPROX 3/8 MILE ON LEASE ROAD.

10/01/92 FIRST REPORT: WOC (SURFACE PIPE) @ 325'. DSS 1. FOOTAGE LAST 24 HRS: 335', 4 HRS, 84 FT/HR. SURVEY: 1 DEGREE @ 335'. COMMENTS: MIRU EXETER RIG #2. SPUD @ 7:00 PM, 9/30/92. DRILL 2-1/4" HOLE TO 335'. POOH W/ DP, LD SURFACE BIT. RIH W/ 7 JTS 8-5/8", 24#, K55 CSG. SET @ 325'. CEMENT W/ 300 SX CLASS G W/ 3% CC. CIRC THROUGH OUT, CIRC CEMENT TO SURFACE. BUMP PLUG @ 2:00 AM TO 10/1/92. WOC. DC \$8,950, (TURNKEY DRILLING COSTS TO BE INCLUDED @ TD) CWC \$8,950

10/02/92 DRILLING AHEAD @ 2926'. DSS 2. FOOTAGE LAST 24 HRS: 2601', 16-3/4 HRS, 155 FT/HR, 10000# WOB, 100 RPM, 25000# SW. BIT #1, 7-7/8" REED HP-11, IN 325', OUT @ 2604', 2279', 13-1/2 HRS, 169 FT/HR. BIT #2, 7-7/8" SECURITY B25-4, IN @ 2604', 322' 3-1/4 HRS, 99 FT/HR. BHA: BIT, MUD MOTOR, SUB, 7 DC. SURVEYS: 1 DEGREE @ 1829', 1 DEGREE @ 2604'. MUD: NATIVE COMMENTS: BIT TRIP @ 2604', DRILLING AHEAD. DC \$0, CWC \$8,950

10/03/92 DRILLING AHEAD @ 5475'. DSS 3. FOOTAGE LAST 24 HRS: 2549', 22-1/2 HRS, 113 FT/HR, 18000# WOB, 100 RPM, 118000# SW. BIT #2, 7-7/8" SECURITY B-25-4, 3/16'S, IN @ 2604', 2871', 25-3/4 HRS, 112 FT/HR. BHA: BIT, MUD MOTOR, SUB, 7 DC. SURVEYS: 2-1/4 DEGREES @ 3642', 1-1/4 DEGREES @ 3642', 1-1/4 DEGREES @ 4135', 1 DEGREE @ 5134'. MUD: NATIVE. COMMENTS: DRILLING AHEAD. DC \$0, CWC \$8,950

10/04/92 TD @ 6910', POOH TO LOG. DSS 4. FOOTAGE LAST 24 HRS: 1435', 21-3/4 HRS, 66 FT/HR, 18000# WOB, 100 RPM, 14000# SW. BIT #2, 7-7/8" SECURITY B25-4, 3/16'S, IN @ 2604', 4306', 157 FT/HR. BHA: BIT, MUD MOTOR, SUB, 7 DC. SURVEYS: 1-1/2 DEGREES @ 6125'. MUD: 9.3 PPG,

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WELL: WHITE #27-5 (D/W)	STATE: CO
PROJECT: PPDC	COUNTY: WELD
55 VIS, 9 PV, 12 YP, 218 GELS, 8.5 PH, 2 CAKE, 300 CL, 40 CA, .25 SAND, 7.25 SOLIDS. COMMENTS: MUD UP @ 6500. DC \$0, CWC \$8,950	

10/05/92	WOC @ 6879' (PBSD). DSS 5. COMMENTS: FINISH POOH, LD DP. RU PSI. LOG W/ CNL/CDL. RD PSI. RIH W/ FLOAT SHOE, 1 JT 3-1/2", 9.3#, J55, 8RD, LATCH PLATE, 4 JTS 3-1/2", 9.3# J55, 8 RD, FRAC RING, 5 JTS 3-1/2", 9.3#, J55 8RD, X-OVER, 125 JTS 3-1/2", 9.3#, N 80 BUTTRESS, X OVER, 85 JTS 3-1/2", 9.3#, J55, 8 RD. TOTAL 220 JTS 3-1/2", 9.3# CSG, SHOE @ 6910' PBSD @ 6879', FRAC RING @ 6749'. RU DS. CEMENT AS FOLLOWS: PUMP 10 BBL CHEMICAL WASH, 30 BBL 2% KCL WATER, 650 SX 50/50 POZ 1G W/ 2% GEL AND .15% RETARDER. TAIL IN W/ 200 SX CLASS G W/ 35% SILICA FLOUR, .7% B14 (FLA) AND .15% D69 (TI). DISPLACE W/ 60 BBL 2% KCL WATER. BUMP PLUG @ 1800# 10:45 PM 10/4/92. RD DS. RELEASE EXETER RIG #2 @ 11:30 PM 10/4/92. DC \$73,231, CWC \$82,181
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10/07/92	PBSD 6879'. RIG UP OILWELL PERFORATORS W/ MAST TRUCK. RAN GR-CCL FROM 6200-6828'. WIRELINE TD @ 6828'. DC \$1,090, CWC \$83,271
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10/08/92	WOCT. DC \$0, CWC \$83,271
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10/09/92	WOCT. DC \$0, CWC \$83,271
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10/10/92	PBSD @ 6879. WOCT. DC \$0, CWC \$83,271
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10/11/92	PBSD @ 6879'. WOCT. DC \$0, CWC \$83,271
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10/12/92	PBSD @ 6879'. WOCT. DC \$0, CWC \$83,271
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10/13/92	PBSD @ 6879'. WOCT. DC \$0, CWC \$83,271
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10/14/92	PBSD @ 6879'. WOCT. DC \$0, CWC \$83,271
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10/15/92	PBSD @ 6879'. RU OWP WIRELINE. PERF CODELL @ 6768'-74'
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& 6776-78' W/ 4 SPF, 40 HOLES. RU DS. BROKE CODELL,
PUMP IN @ 5 BPM, 3400#. PERF NIOBRARA C @ 6671', 6658'
& 6652' (3 HOLES); NIOBRARA B @ 6583'-87' W/ 1 SPF
(5 HOLES) & 6592'-6600' W/ 1 SPF (9 HOLES); NIOBRARA A
@ 6498'-6503' W/ 1 SPF (6 HOLES) AND 1 SHOT @ 6494,
1 SHOT @ 6488'. 25 HOLES IN NIOBRARA, 40 TOTAL HOLES
IN CODELL. RD OWP. DIVERTAFRAC CODELL W/ 15,000 GAL
@ 8 BPM. SD 1 HR. RESUME FRAC W/ 49,000 GAL YT500HT
X-LINK, 4500 100 MESH & 197300# 20/40. INJECTED FRAC
BALL. DISPLACED W/ 1000 GAL 7-1/2% HCL, 64 BBL 2% KCL
WATER. LANDED BALL @ 4120#. ISIP 3700#. AVG RATE 12
BPM @ 3800#. SD 1-1/2 HRS. FRAC NIOBRARA W/ 67,000 GAL
YT500HT X-LINK, 10,000# MESH & 170060# 20/40 @ AVG 20 BPM,
4800#. DISPLACE W/ 53 BBL 2% KCL WATER. ISIP 3660#,
15 MIN 3500#. RD DS. SI & SDFN. 3278 BLWTR.
DC \$59,600, CWC \$142,871

10/16/92	PBTD @ 6879'. SICP 2400#. WELLHEAD FROZEN. THAWED VALVE. OPENED WELL ON 8/64 CHOKE @ 11:00 AM. FLOWING BACK TO FRAC TANK. 3278 BLWTR. DC \$0, CWC \$142,871
10/17/92	PBT @ 6879'. FLOW 20 HRS: 163 BLW @ 0# FCP. FOUND WELLHEAD PLUGGED W/ SAND. CLEANED OUT. TURNED WELL TO TANK BATTERY ON 8/64 CHOKE. DC \$0, CWC \$142,871
10/18/92	PBTD @ 6879'. FLOW 24 HRS: 5 BO, 389 BLW, VENTING GAS @ 900# FCP ON 8/64 CHOKE. RECOVERED FRAC BALL. 2726 BLWTR, 552 BLWTD, 5 BOTD. DC \$0, CWC \$142,871
10/19/92	PBTD @ 6879'. FLOW 24 HRS: 19 BO, 189 BLW, VENTING GAS @ 900# FCP ON 8/64 CHOKE. 2537 BLWTR, 741 BLWTD, 24 BOTD. DC \$0, CWC \$142,871
10/20/92	PBTD @ 6879'. FLOW 24 HRS: 28 BO, 140 BLW, VENTING GAS @ 1040# ON 8/64 CHOKE. 2397 BLWTR, 881 BLWTD, 52 BOTD. DC \$0, CWC \$142,871
10/21/92	PBTD @ 6879'. FLOW 24 HRS: 39 BO, 87 BLW, VENTING GAS @ 925# FCP ON 8/64 CHOKE. 2310 BLWTR, 968 BLWTD, 91 BOTD. DC \$0, CWC \$142,871
10/22/92	PBTD @ 6879'. FLOW 24 HRS: 44 BO, 49 BW, VENTING GAS

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@ 850# FCP ON 8/64 CHOKE. 2261 BLWTR, 1017 BLWTD, 135 BOTD.
DC \$9,100 (PIT CLOSURE, FLOWLINE, RESTORATION)
CWC \$151,971

10/23/92 PBTD @ 6879': FLOW 24 HRS: 44 BO, 49 BLW, VENTING GAS
@ 850# FCP ON 8/64 CHOKE. 2212 BLWTR, 1066 BLWTD,
179 BOTD.
DC \$0, CWC \$151,971

10/24/92 PBTD @ 6879': FLOW 24 HRS: 60 BO, 21 BLW, VENTING GAS
@ 870# FCP ON 8/64 CHOKE. 2191 BLWTR, 1087 BLWTD, 239 BOTD.
DC \$0, CWC \$151,971

10/25/92 PBTD @ 6879'. FLOW 24 HRS: 30 BO, 50 BLW, VENTING GAS
@ 740# FCP ON 8/64 CHOKE. 2141 BLWTR, 1137 BLWTD, 269 BOTD.
DC \$0, CWC \$151,971

10/26/92 PBTD @ 6879'. FLOW 24 HRS: 47 BO, 17 BLW, VENTING GAS
@ 700# FCP ON 8/64 CHOKE. TURNED GAS TO SALES LINE @
10:00 AM. FIRST GAS SALES @ 10/26/92.
2124 BLWTR, 1154 BLWTD, 316 BOTD.
DC \$0, CWC \$151,971

10/27/92 PBTD @ 6879'. FLOW 24 HRS: 33 BO, 25 BLW, 120 MCF @ 700#
FCP ON 8/64 CHOKE. 2099 BLWTR, 1179 BLWTD, 349 BOTD.
DC \$0, CWC \$151,971

10/28/92 PBTD @ 6879'. FLOW 24 HRS: 32 BO, 10 BLW, 120 MCF @ 700#
FCP ON 8/64 CHOKE. FIRST OIL SALES 10/28/92. 52 DEGREES
API GRAVITY CRUDE. 2089 BLWTR, 1189 BLWTD, 381 BOTD.
DC \$0, CWC \$151,971

FINAL REPORT

AFE # 600765 AMOUNT \$155,000

FORMATION: NIOBRARA/CODELL

PBTD: 6879'

SPUD DATE: 9/30/92

TD DATE 10/4/92 @ 6910'

COMPLETION DATE 10/16/92

DATE OF FIRST OIL SALES 10/28/92

DATE OF FIRST GAS SALES: 10/26/92

TEST DATA: 10/28/92, FLOW 32 BO, 10 BLW, 120 MCF @
700# FCP ON 8/64 CHOKE. 52 DEGREES API GRAVITY CRUDE.
36% LOAD WATER RECOVERED.

TOTAL ESTIMATED COST: \$151,971