

EUGENE W. OHLEMEIER

PETROLEUM COUNSELOR

1658 SO. GARLAND CT. - LAKEWOOD, COLORADO 80226 - (303) 986-0490

WELL COMPLETION REPORT

No. 1 UPRR-MEYER
SW-SE SECTION 9-2S-63W
ADAMS COUNTY, COLORADO

ZOLLER AND DANNEBERG EXPLORATION LTD.
SUITE 1360, 1600 BROADWAY
DENVER, COLORADO 80202

SUMMARY OF COMPLETION
#1 UPRR-MEYER
SW-SE SEC. 9-2S-63W
ADAMS COUNTY, COLORADO

ELEVATION: 5194' G.L.
5205' K.B.

ZERO DATUM: 11' ABOVE G.L.

HOLE SIZE: 7-7/8" FROM 212' TO T.D.

ROTARY TOTAL DEPTH: 7665' LOGGER: 7671'

PLUG BACK TOTAL DEPTH: 7556' C.I. BRIDGE PLUG-7568' w/ 12' CEMENT
7606' BELOW C.I. BRIDGE PLUG.

CASING RECORD: 8-5/8" OD CASING SET AT 212'.
4-1/2" OD CASING SET AT 7664'.
(CORRECT TO LOGGER DEPTH 7670')

RADIO ACTIVE LOGS: CEMENT BOND, GAMMA RAY AND COLLAR LOGS.
CEMENT TOP = 6468'.

PERFORATION RECORD: 7587' - 7590' & 7573' - 7580' WITH 1/FOOT
3-1/8" DML JET CHARGE. (PLUGGED OFF WITH
C.I. BRIDGE PLUG.)
7531' - 7543' WITH 1/FOOT 3-1/8" DML JET
CHARGES.

TREATMENT RECORD: 7587'-7590' & 7573'-7580' = ACIDIZE WITH
1000 GAL. 15% BDA ACID.
7531'-7543' = ACIDIZE WITH 1000 GAL. 15%
BDA ACID AND 46,000 SCF NITROGEN.
FRAC WITH 31,000 GAL. SANDFRAC K-1, 10,000#
100 MESH SAND, 63,500# 20-40 MESH SAND,
1,500# 12-20 MESH GLASS BEADS.

TUBING RECORD: BOTTOM: .55' 2-3/8" OD 8RD. EUE NOTCHED TUBING CLR.
NEXT: 30.98' 1 JT. 2-3/8" OD EUE 4.7# SMLS. TUBING.
NEXT: 1.10' 2-3/8" OD EUE PUMP SEATING NIPPLE.
NEXT: 7487.03' 242 JTS. 2-3/8" OD EUE 4.7# SMLS.
TUBING.

TOTAL: 7519.66'
TUBING TAIL PIPE AT 7520'.

HISTORY OF COMPLETION
#1 UPRR-MEYER
SW-SE Sec. 9-2S-63W
ADAMS COUNTY, COLORADO

MARCH 16, 1974: RAN 249 JTS. $4\frac{1}{2}$ " OD 8RD. 11.6#, 10.5# & 9.5# J-55 NEW AND USED CASING ST&C & LT&C. 7671.83' SET AT 7670'. CEMENTED WITH 250 SACKS 50-50 POZMIX, 2% GEL, 10% SALT, $\frac{3}{4}$ OF 1% CFR2 CEMENT. HAD GOOD CIRCULATION THROUGHOUT. PLUG DOWN AT 8:45 A.M.

MARCH 17, 1974.

PLACE $4\frac{1}{2}$ " CASING CENTRALIZERS AT 7650', 7571', 7514', 7451' AND 7388'. PLACE ROTATING SCRATCHERS FROM 7600' THRU 7525' AND 7490' THRU 7465'.

CASING DETAIL:

BOTTOM:	.74'	$4\frac{1}{2}$ " OD 8RD. BAKER REGULAR GUIDE SHOE.
NEXT:	61.28'	2 JTS. $4\frac{1}{2}$ " OD 8RD. 11.6# J-55 SMLS. USED CASING LT&C
"	1.62'	$4\frac{1}{2}$ " OD 8RD. BAKER G DIFFERENTIAL FILL FLOAT COLLAR.
"	2182.57'	70 JTS. $4\frac{1}{2}$ " OD 8RD. 11.6# J-55 SMLS. USED CASING LT&C
"	4118.93'	135 JTS. $4\frac{1}{2}$ " OD 8RD. 9.5# K-55 SMLS. NEW CASING ST&C
"	970.91'	31 JTS. $4\frac{1}{2}$ " OD 8RD. 10.5# J-55 SMLS. USED CASING ST&C
	335.78'	11 JTS. $4\frac{1}{2}$ " OD 8RD. 11.6# J-55 SMLS. USED CASING LT&C
TOTAL:	7671.83'	
LESS:	11.83'	CASING CUT OFF 1' ABOVE G.L.
ADD:	10.00'	DIFFERENCE CASING CUT OFF AND K.B.
	7670.00'	CASING LANDING DEPTH.

MARCH 25, 1974 MOVE IN AND RIG UP GIBSON WELL SERVICE UNIT. WELD ON BELL NIPPLE. LOAD AND MOVE 2" TUBING. MUDDY ROAD AND LOCATION SLOWED PROGRESS.

MARCH 26, 1974: RUN 2-3/8" OD EUE TUBING WITH A NOTHCED COLLAR AND PUMP SEATING NIPPLE ON BOTTOM. DRILL AND REVERSE OUT APPROX. 16' SOFT CEMENT. SET TUBING STRING 18' OFF BOTTOM. BEGIN SWABBING LOAD WATER FROM TUBING AND ANNULUS. SHUT WELL IN WITH FLUID SWABBED TO 3500'.

MARCH 27, 1974: WORK ON RIG TRANSMISSION THIS MORNING. CONTINUE SWABBING AFTER RIG REPAIRS. SWAB TO 700' OFF BOTTOM. PULL TUBING. PERFORATE THE INTERVAL FROM 7587' THRU 7590' AND 7573' THRU 7580' WITH 1 HOLE PER FOOT - 3-1/8" DML Densi-Jet Charges. CORRECTED PLUG BACK TOTAL DEPTH 7606'. RUN 3 STANDS TUBING WITH A 2"x $4\frac{1}{2}$ " BAKER RETRIEVO-MATIC PACKER WITH 1 JT. TAILPIPE. SHUT WELL IN.

HISTORY OF COMPLETION

#1 UPRR-MEYER

- MARCH 28, 1974: NO SHUT IN WELL HEAD PRESSURE THIS MORNING. FINISH RUNNING TUBING AND PACKER. PACKER LOCATED AT 7557' WITH TUBING TAILPIPE AT 7588'. FILL TUBING AND ANNULUS WITH 111 BBL. 1½% KCL WATER. SPOT 1000 GAL. 15% BDA ACID ON BOTTOM. SET PACKER AND PRESSURE FORMATION. FORMATION BROKE AT 1600 PSI. TO 1300 PSI. DISPLACE ACID AT 1½ BPM RATE WITH PRESSURE INCREASING TO 1400 PSI. AT END OF TREATMENT. PLACE 10 BALL SEALERS THRU ACID, WITH NO NOTICABLE ACTION. ISIP 900 PSI. BLED TO 400 PSI. IN 9 MIN. RELEASE PRESSURE, SWAB BACK 29 BBL. LOAD WATER AND 24 BBL. ACID WATER. NO SHOW OF GAS. TEST 2 HOURS. RECOVER 2 BTFH SWABBING OFF BOTTOM. NO GAS SHOW. SHUT WELL IN.
- MARCH 29, 1974: 50 PSI. SHUT IN WELL HEAD PRESSURE THIS MORNING. FLUID LEVEL 1800' OFF BOTTOM. RECOVER APPROX. 7 BBL. ACID WATER WITH A TRACE OF KCL WATER. NO GAS SHOW. RELEASE PACKER. SWAB WELL DOWN TO 5000', SHUT WELL IN. SHUT RIG DOWN FOR HIGH WINDS.
- MARCH 30, 1974: PULL TUBING AND PACKER. SET A 4½" C.I. BRIDGE PLUG AT 7568'. SPOT 12' CEMENT ON TOP OF PLUG. P.B.T.D. 7556'. PERFORATE THE INTERVAL 7531' THRU 7543' WITH 1 HOLE PER FOOT 3-1/8" DML DENS-JET CHARGES. TOTAL 13 HOLES. RUN TUBING AND PACKER, SET PACKER AT 7461' WITH TUBING TAILPIPE AT 7492'. SWAB TUBING TO BOTTOM. RECOVER LOAD WATER WITH A GOOD SHOW OF GAS. SHUT WILL IN.
- MARCH 31, 1974: 725 PSI. SHUT IN TUBING PRESSURE THIS MORNING. RELEASE PRESSURE TO PIT. LOAD TUBING AND ANNULUS WITH 1½% KCL WATER. SPOT 30,000 SCF NITROGEN IN TUBING. PACKER SET BEFORE NITROGEN DISPLACED IN TUBING. ESTIMATE 5 BBL. KCL WATER INTO FORMATION, BEFORE NITROGEN, AT 2800 PSI. PRESSURE DECREASED TO 2400 PSI. WITH ACID ON FORMATION. DISPLACE NITROGEN AND 1000 GAL. 15% BDA ACID WITH 22 BBL. WATER. 1½ BPM INJECTION RATE THRU TREATMENT, WITH 500 CF/MIN. OF NITROGEN IN ACID AND FLUSH WATER. DROP 12 BALL SEALERS THRU ACID. TWO 300 PSI. PRESSURE INCREASES INDICATED SOME BALL ACTION.

HISTORY OF COMPLETION

#1 UPRR-MEYER

MARCH 31, 1974:
(CONTINUED)

1800 PSI. ISIP. RELEASE FLUID TO PIT. UNLOAD
FLUSH WATER AND APPROX. 10 BBL. ACID WATER TO PIT.
WELL DIED. SWAB APPROX. 15 BBL. ACID WATER WITH
PRESSURE SURGES TO PIT.
SHUT WELL IN.

APRIL 1, 1974:

1000 PSI. SHUT IN TUBING PRESSURE THIS MORNING.
RELEASE PRESSURE TO PIT. RUN SWAB, FLUID LEVEL AT
5000'. RECOVER APPROX. 8 BBL. ACID AND KCL WATER.
PULL TUBING AND PACKER. HOOK UP DOWELL AND FRAC.
DOWN CASING AS FOLLOWS:
FILL CASING WITH 5000 GAL. SANDFRAC K-1 PAD.
20 BPM RATE, 2500 PSI.
5000 GAL. SANDFRAC K-1 W/ 2# PER GAL. 100 MESH SAND.
19 BPM RATE, 2700 PSI.
6000 GAL. SANDFRAC K-1 W/ 1# PER GAL. 20-40 MESH SAND.
19 BPM RATE, 2800 PSI.
14000 GAL. SANDFRAC K-1 W/ 4# PER GAL. 20-40 MESH SAND.
19 BPM RATE, 2950 PSI.
1000 GAL. SANDFRAC K-1 W/ 3# PER GAL. 20-40 MESH
SAND AND 12-20 MESH GLASS BEADS AT 1 TO 1 RATIO.
19 BPM RATE, 3000 PSI.
FLUSH WITH 120 BBL. 1½% KCL WATER.
19 BPM RATE, 2850 PSI.
ISIP 1600 PSI. AND TO 1450 PSI. IN 15 MIN.
AVERAGE INJECTION RATE 19 BPM AT 2800 PSI.
498 BBL. CONDENSATE AND 390 BBL. WATER = TOTAL 888
BBL. LOAD FLUID TO RECOVER. OPEN WELL TO PIT. FLOW
BACK 120 BBL. FLUSH WATER AND APPROX. 10 BBL.
CONDENSATE TO PIT. FLOW 40 BBL. CONDENSATE TO TANK
BEFORE WELL DIED. 170 BBL. LOAD FLUID RECOVERED.
SHUT WELL IN.

APRIL 2, 1974:

WELL ON VACUUM THIS MORNING. RUN TUBING WITH PUMP
SEATING NIPPLE AT 7486' AND A NOTCHED TUBING COLLAR
AT 7520'. FLUID LEVEL 800' FROM SURFACE, HAD 50
BBL. LOAD FLUID RECOVERED AT 4:00 P.M. FLUID GASSY.
SWABBING FLUID LEVEL 1900' FROM SURFACE. RECOVER
70 BBL. TOTAL LOAD FLUID TODAY. 240 BBL. TOTAL LOAD
RECOVERED. SHUT WELL IN.

APRIL 3, 1974:

WELL SHUT IN, DRIFTING SNOW.

APRIL 4, 1974:

WELL SHUT IN, ROADS DRIFTED SHUT.

HISTORY OF COMPLETION

#1 UPRR-MEYER

APRIL 5, 1974: SNOW MELTING, ROAD FULL OF WATER. WALK INTO WELL. 500 PSI. SHUT IN TUBING PRESSURE. RELEASE PRESSURE AND FLOW FLUID TO TANK. WELL DIED. PULL SWAB 3 TIMES. WELL KICKED OFF FLOWING AT 11:00 A.M. 120 BBL. LOAD FLUID RECOVERED AT 4:00 P.M. TUBING PRESSURE 1175 PSI. ON 10/64" CHOKE. SHUT IN CASING PRESSURE 300 PSI. FLOWING VERY LITTLE FLUID. SHUT WELL IN. RIG DOWN UNIT AND PULL FROM LOCATION. 360 BBL. LOAD FLUID RECOVERED TO DATE. 520 BBL. LOAD FLUID REMAINING TO RECOVER.

APRIL 6, 1974: SHUT IN TUBING PRESSURE 1600 PSI., CASING 1000 PSI. OPEN WELL ON 20/64" CHOKE. TUBING PRESSURE 1400 PSI. AND CASING 1000 PSI. IN 15 MINUTES. SET ON 10/64" CHOKE. TROUBLE WITH CHOKE FREEZING OFF. SHUT WELL IN AT 4:30 P.M. 1420 PSI. ON TUBING AND 1170 PSI. ON CASING. RECOVER 10 BBL. LOAD FLUID.

APRIL 7, 1974: WELL SHUT IN.

APRIL 8, 1974: SHUT IN TUBING PRESSURE 1600 PSI. CASING 1460 PSI. OPEN TUBING ON 20/64" CHOKE. TEST 2 HOURS.

	TUBING PSI.	CASING PSI.	
12:00 NOON	1600	1460	SHUT IN.
12:30 P.M.	760 - 800	1430	UNLOAD FLUID.
1:00 P.M.	800 - 850	1400	" "
1:30 P.M.	1000	1375	" "
2:00 P.M.	1150	1410	" "

RECOVER 20 BBL. LOAD FLUID. SHUT WELL IN.

APRIL 9, 1974: OPEN WELL ON 20/64" CHOKE AND TEST.

	TUBING PSI.	CASING PSI.	
12:45 P.M.	1710	1775	SHUT IN.
1:00 P.M.	1300	1665	
1:30 P.M.	1100	1675	UNLOADING FLUID.
2:00 P.M.	1110	1600	" "
2:30 P.M.	1125	1575	" "
4:30 P.M.	1090	1475	" "

RECOVER 20 BBL. LOAD FLUID. SHUT WELL IN.

APRIL 10, 1974: OPEN WELL ON 18/64" CHOKE AND TEST.

	TUBING PSI.	CASING PSI.	
9:30 A.M.	1700	1825	SHUT IN.
4:00 P.M.	1500	1775	CHOKE FREEZING.

HISTORY OF COMPLETION
#1 UPRR-MEYER

APRIL 10, 1974: SHUT WELL IN. RECOVER 25 BBL. LOAD FLUID.
(CONTINUED) 435 BBL. TOTAL LOAD FLUID RECOVERED. 445 BBL.
LOAD FLUID REMAINING TO RECOVER.

APRIL 11, 1974: WELL SHUT IN. WAITING ON DRY WEATHER TO MOVE IN
TEST EQUIPMENT.

Ernest W. Ohlson