



00271218

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MAR 8 1974

COLORADO OIL & GAS CONS. COMM.

WELL COMPLETION REPORT

DYCO PETROLEUM COMPANY  
No. 1 LOUSBERG  
SECTION 18-9N-56W  
WELD COUNTY, COLORADO

DVR	
FJP	
HHM	
JAM	<input checked="" type="checkbox"/>
JJD	

SUMMARY OF COMPLETION

#1 LOUSBERG  
SEC. 18-9N-56W  
WELD COUNTY, COLORADO



ZERO DATUM: 7' ABOVE G.L.

HOLE SIZE: 7-7/8" FROM 92' TO T.D.

ROTARY TOTAL DEPTH: 5988'

PLUG BACK TOTAL DEPTH: 5933'

CASING RECORD: 8-5/8" OD CASING SET AT 92'.  
4 1/2" OD 10.5# CASING SET AT 5987' WITH  
175 SACKS CEMENT.

RADIO ACTIVE LOGS: GAMMA RAY, CEMENT BOND AND COLLAR LOCATOR  
LOGS. CEMENT TOP 5190'. POOR CEMENT BOND  
ABOVE 5700'.

PERFORATION RECORD: 5918" - 5922' 2/FT. 3-1/8" DML JETS.

TREATMENT RECORD: ACIDIZE PERFORATIONS WITH 250 GAL. 7 1/2%  
HCL ACID WITH NE ADDITIVES AND 1% KCL  
WATER.

TUBING RECORD: 189 JTS. 2-3/8" EUE 4.7# SMLS. TUBING  
SET AT 5915'.



HISTORY OF COMPLETION

#1 LOUSBERG

DECEMBER 9, 1973

RAN 186 JTS. 4 1/2" OD 8RD. 10.5# K SMLS ST&C CASING 5997.08' SET AT 5987' WITH 175 SACKS 50-50 POZMIX, 2% GEL, 10% SALT CEMENT. PRECEED CEMENT WITH 500 GAL. MUD FLUSH. PLACE HALCO ROTATING SCRATCHERS FROM 5935' THRU 5905', AND 4 1/2" HALCO CASING CENTRALIZERS AT 5983', 5888', 5824', AND 5763'. PLUG DOWN AT 11:35 AM DECEMBER 10, 1973. HAD GOOD CIRCULATION THROUGHOUT.

CASING DETAIL:

BOTTOM	1.62'	1- 4 1/2" HALCO REGULAR GUIDE SHOE
NEXT	32.10'	1 JT. 4 1/2" OD 8RD. 10.5# K SMLS ST&C CASING.
"	1.88'	1- 4 1/2" HALCO DIFFERENTIAL FILL COLLAR
"	5961.48'	185 JTS. 4 1/2" OD 8RD. 10.5# K SMLS ST&C CASING.
TOTAL	5997.08'	
LESS	10.08'	CASING CUT OFF JOINT.
TOTAL	5987.00'	CASING LANDING DEPTH.

DECEMBER 12, 1973

RUN CEMENT BOND, GAMMA RAY AND COLLAR LOCATOR LOGS. P.B.T.D. 5933'. CEMENT TOP 5190'.

DECEMBER 20, 1973

MOVE COMPLETION UNIT TO LOCATION. ARRANGE FOR CAT TO CLEAN SNOW FROM ROAD.

DECEMBER 21, 1973

MOVE IN AND RIG UP EATMON DRILLING CO. UNIT. SWAB CASING TO 2100' FROM SURFACE. PERFORATE THE INTERVAL 5918' THRU 5922' WITH 2 SHOTS PER FOOT 3-1/8" DML JETS. RUN 2-3/8" SMLS. TUBING AS FOLLOWS:

TUBING DETAIL:

BOTTOM	1.10'	1- 2-3/8" EUE REG. PUMP SEATING NIPPLE.
NEXT	5911.28'	189 JTS. 2-3/8" OD EUE 4.7# J SMLS. TUBING T&C.
TOTAL	5912.38'	
ADD	3.00'	BELOW K.B. MEASUREMENT.
TOTAL	5915.38'	TUBING LANDING DEPTH.

DECEMBER 22, 1973

NO WELL HEAD PRESSURE THIS MORNING. FLUID LEVEL 1700' FROM SURFACE. BEGIN SWABBING TO PIT.

TIME:	FLUID LEVEL:	CASING-PSI:	TUBING-PSI:
10:30 AM	4100'	0	0
1:00 PM	5500'	50	0
2:00 PM	5750'	75	0
3:00 PM	5900'	100	75
4:00 PM	TUBING UNLOADING WATER MIST TO PIT.		

SHUT WELL IN AT DARK.



DECEMBER 23 THRU  
DECEMBER 25, 1973

WELL SHUT IN FOR SNOW STORM AND CHRISTMAS DAY.

DECEMBER 26, 1973

1220 PSI SHUT IN TUBING AND CASING PRESSURE.  
OPEN TUBING ON 28/64" CHOKE TO PIT AT 8:30 AM.

TIME:	CASING PSI	TUBING PSI	
9:30 AM	300	5	TRACE OF WATER.
10:30 AM	60	5	" "
11:30 AM	50	5	" "
12:30 PM	50	5	" "
1:30 PM	50	5	" "
2:30 PM	55	5	" "
3:30 PM	75	25	TRACE OF DISTILLATE
4:30 PM	60	5	EST. 75 MCFGD

SHUT WILL IN.

DECEMBER 27, 1973

1200 PSI SHUT IN TUBING AND 1240 PSI SHUT IN CASING PRESSURE THIS MORNING. RELEASE TUBING AND CASING PRESSURE. FILL TUBING AND ANNULUS WITH 1% KCL WATER. SPOT 250 GAL. 7 1/2% HCL ACID WITH NE AGENTS ON PERFORATIONS. PRESSURE FORMATION TO 1800 PSI DISPLACING ACID AT 3/4 BPM RATE. SLOW RATE TO 1/2 BPM, DISPLACING THE REMAINING ACID AT 850 PSI. PRESSURE DECLINED TO 400 PSI ON SHUT DOWN. RELEASE REMAINING PRESSURE TO PIT. WELL DEAD. BEGING SWABBING AT 10:00 AM. 86 BBL. KCL WATER AND 6 BBL. ACID WATER TO RECOVER. HAD APPROX. 50 BBL. LOAD WATER RECOVERED AT 1:30 PM. THE WELL BEGAN UNLOADING FLUID. AT 3:30 PM UNLOADING FLUID WITH 680 PSI CASING PRESSURE. SHUT WELL IN AT 4:30 PM.

DECEMBER 28, 1973

880 PSI SHUT IN TUBING PRESSURE AND 1240 PSI SHUT IN CASING PRESSURE. OPEN WELL ON 32/64" CHOKE. UNLOADING A LARGE VOLUME OF WATER. CONTINUE BLOWING WELL WITH CASING PSI AVERAGING 680 PSI AND TUBING PRESSURE 360 PSI. ESTIMATE GAS VOLUME AT 2+ MMCFGD, AND FLUID MIST AT 2 OR 3 BPH. SHUT WILL IN AT DARK.

DECEMBER 29, 1973

1000 PSI SHUT IN TUBING PRESSURE AND 1220 PSI SHUT IN CASING PRESSURE. OPEN TUBING ON 32/64" CHOKE. UNLOAD APPROXIMATELY 5 BBL. FLUID. TUBING PRESSURE STABILIZED AT 380 PSI AND CASING PRESSURE AT 700 PSI. SHUT WELL IN WAITING ON TESTING EQUIPMENT.

JANUARY 2, 1974

ATTEMPT TO TEST WELL. SUB ZERO TEMPERATURE HINDERED GAS FLOW. DISCONTINUE TEST UNTIL WARMER WEATHER.



JANUARY 14, 1974

1100 PSI SHUT IN TUBING PRESSURE AND 1240 PSI SHUT IN CASING PRESSURE. OPEN WELL TO PIT ON 30/64" CHOKE. UNLOAD APPROXIMATELY 5 BTF IN 2 HRS. SHUT WELL IN.

JANUARY 15, 1974

1100 PSI SHUT IN TUBING PRESSURE AND 1240 PSI SHUT IN CASING PRESSURE. HOOK UP CABLE DRILLING CO. TO TEST WELL. FLARE WELL TO PIT DURING TEST. FOLLOWING ARE ESTIMATED VOLUMES ON 3 POINTS DURING THE TEST:

<u>CHOKE:</u>	<u>TUBING PSI</u>	<u>CASING PSI</u>	<u>VOLUME MCF</u>
10/64	820	980	1080
17/64	580	880	1576
23/64	470	800	1613

FLUID PROD. FLUCTUATED, BUT AVERAGED 3.9 BTFH APPROXIMATELY 75% WATER.

FINAL TEST RESULTS AND SAMPLE ANALYSIS WILL BE PROVIDED BY CABLE DRILLING CO.

ADDITIONAL EQUIPMENT WILL BE NEEDED TO SEPARATE THE PRODUCTS BEFORE DELIVERY AND MAY BE SUBJECT TO THE PURCHASERS REQUIREMENTS. PROBABLE EQUIPMENT NEEDED WOULD BE A HIGH PRESSURE SEPARATOR, HEATER-TREATER AND STORAGE TANK.

EUGENE W. OHLEMEIER  
PETROLEUM COUNSELOR

Contractor Gear Drlg. Co. Top Choke 1 1/4"  
 Rig No. 2 Bottom Choke 9/16"  
 Spot NW-SW Size Hole 7 7/8"  
 Sec. 18 Size Rat Hole None  
 Twp. 9 N Size & Wt. D. P. 4 1/2" 16.60  
 Rng. 56 W Size Wt. Pipe None  
 Field McKenzie I. D. of D. C. 2 1/4"  
 County Weld Length of D. C. 270'  
 State Colorado Total Depth 5988'  
 Elevation 4521' "Ground" Interval Tested 5916-5928  
 Formation "J" Sand Type of Test Straddle  
 Tool Open @ 4:30 A. M.  
 Flow #1 10 Min. SIP #1 30 Min. Flow #2 90 Min SIP #2 90 Min.  
 Flow #3 \_\_\_\_\_ Min. SIP #3 \_\_\_\_\_ Min. Flow #4 \_\_\_\_\_ Min. SIP #4 \_\_\_\_\_ Min.  
 B. H. T. 154° Gravity \_\_\_\_\_  
 Mud Wt. 10.3 Viscosity 43

TOOL SEQUENCE

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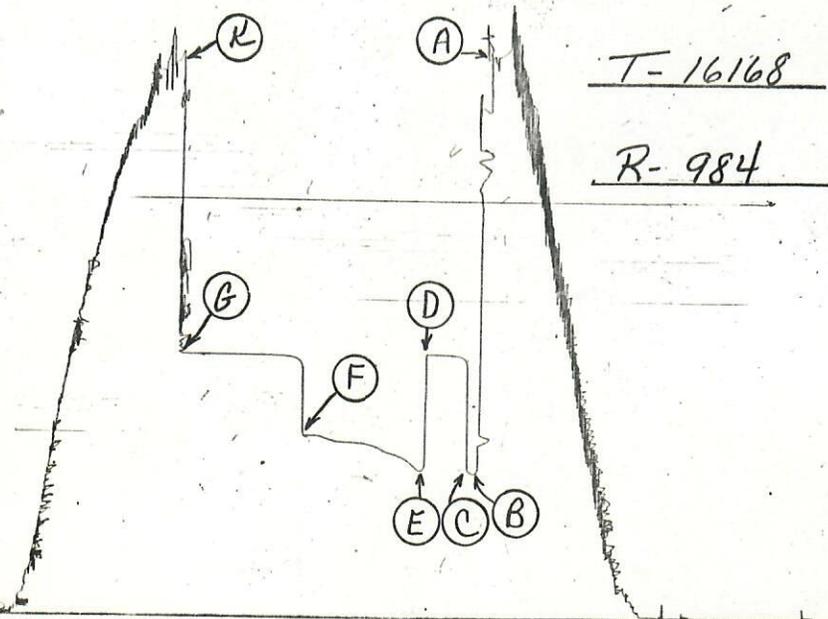
5912-----○

5916-----○

BEST IMAGE AVAILABLE 5928-----○

TD 5988-----○

Operator \_\_\_\_\_  
 Dyco Petroleum Corporation  
 See Distribution



PRD Make	Kuster AK-1		
No.	984	Cap.	4400 @ 5905
	Press	Field	Corrected
IH	A	3002	3182
FH	K	2891	3162
Flow #1-IF	B	783	817
FF	C	811	841
SIP #1	D	1502	1502
Flow #2-IF	E	838	838
FF	F	1037	1027
SIP #2	G	1502	1493
Flow #3-IF	H	None	Taken
FF	I	"	"
SIP #3	J	"	"
Pressure Below Bottom Packer Bled To			1634

Our Tester: Carl. J. Moehr  
 Witnessed By: Glenn Hoppes

RECOVERY IN PIPE

DID WELL FLOW - Gas Yes Oil No Water No

370' Total fluid  
 65' Clean Oil = .92 Bbl.  
 80' Oil and gas cut mud = .71 Bbl.  
 225' Water = 1.10 Bbl.

REMARKS:

1st Flow - Tool opened with strong blow and remained throughout open. Gas to surface in 3 minutes with max. blow 71 lbs. on 1 1/4" orifice.  
 2nd Flow - Tool opened with strong blow and remained throughout open. See Gas volume report.

Corrected pressures in 3 and 9 minute increment readings on following page.

Well Name and No. Lousberg #1  
 Ticket No. 16168  
 Date 12-9-73  
 DST No. 1  
 No. Final Copies 10



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DYCO PETROLEUM CORPORATION  
Lousberg #1 DST #1 Ticket #16168

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Initial Shut-in

3 min.	1481	lbs.
6 "	1489	"
9 "	1495	"
12 "	1498	"
15 "	1500	"
18 "	1501	"
21 "	1501	"
24 "	1502	"
27 "	1502	"
30 "	1502	"

Final Shut-in

9 min.	1480	lbs.
18 "	1485	"
27 "	1488	"
36 "	1490	"
45 "	1491	"
54 "	1491	"
63 "	1492	"
72 "	1492	"
81 "	1493	"
90 "	1493	"



DYCO PETROLEUM CORPORATION  
Lousberg #1 DST #1 Ticket #16168

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Gas Volume Report

5 min.	15 lbs.	on	1 $\frac{1}{4}$ "	orifice	= 1,023,000	CFPD
10 "	40 "	"	"	"	= 1,980,000	"
15 "	54 "	"	"	"	= 2,485,000	"
20 "	60 "	"	"	"	= 2,702,000	"
25 "	63 "	"	"	"	= 2,810,000	"
30 "	56 "	"	"	"	= Unload mud	
35 "	60 "	"	"	"	= Unload mud	
40 "	65 "	"	"	"	= 2,883,000	"
45 "	68 "	"	"	"	= 2,991,000	"
50 "	70 "	"	"	"	= 3,063,000	"
55 "	71 "	"	"	"	= 3,099,000	"
60 "	71 "	"	"	"	= 3,099,000	"
65 "	71 "	"	"	"	= 3,099,000	"
70 "	71 "	"	"	"	= 3,099,000	"
75 "	71 "	"	"	"	= 3,099,000	"
80 "	71 "	"	"	"	= 3,099,000	"
85 "	71 "	"	"	"	= 3,099,000	"
90 "	71 "	"	"	"	= 3,099,000	"

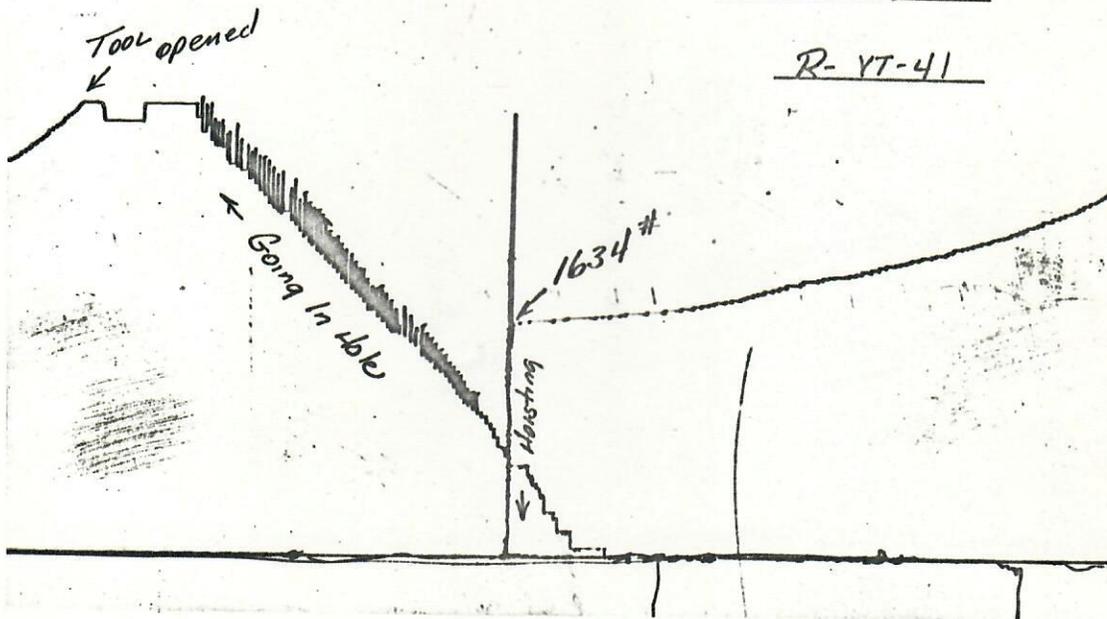


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Bollom Chart ✓ 1

T-16168

R-VT-41



DYCO PETROLEUM CORPORATION  
Lousberg #1 DST #1 Ticket #16168

This recorder blanked off below the bottom packer and since pressure bled to only 1634 lbs., which is more than the shut-in pressure, the bottom packer held. Recorder No. VT-41.

**Fluid Sample Report**



Date ..... 12-9-73 ..... Ticket No. .... 16168 .....

Company ..... Dyco Petroleum Corporation .....

Well Name & No. .... Lousberg #1 ..... DST No. .... 1 .....

County ..... Weld ..... State ..... Colorado .....

Sampler No. .... 15 ..... Test Interval ..... 5916-5928 .....

Pressure in Sampler ..... 1200 ..... PSIG ..... BHT ..... 154° ..... OF

Total Volume of Sampler:..... 2100 ..... cc.

Sample:..... 40 ..... cc.

Oil:..... 20 ..... cc.

Water:..... 20 ..... cc.

Mud:..... None ..... cc.

Gas:..... 4.8 ..... cu. ft.

Other:..... None .....

**Resistivity**

Water: ..... 2.8 @ ..... 65° of Chloride Content ..... 2180 ..... ppm.

Mud Pit Sample ..... 4.2 @ ..... 70° of Chloride Content ..... 1340 ..... ppm.

Gas/Oil Ratio 38,000 to 1 Gravity ..... 43 ..... °API @ ..... OF

Where was sample drained ..... Rig. ....

Remarks: ..... Rig water -- 10.0 @ 70° = 550 ppm chl. ....



# DISTRIBUTION OF FINAL DST REPORTS

Company Operating Well Dyco Petroleum Corporation Tkt. No. 16168  
 Lease Lousberg Well No. 1 Field McKenzie  
 County Weld State Colorado Sec. 18 Twp. 9 N Rng. 56 W Spot NW-SW  
 DST. No. 1 Date of Test 12-9-73 Interval Tested 5916-5928

**BE SURE AND SHOW CORRECT ADDRESS AND NUMBER OF COPIES. STATE ADDRESS TO WHICH ORIGINAL CHART WILL BE MAILED.**

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Denver, Colorado, 80203

1 copy: Texas Gas Expl. Co., Attn: R.D. Benge, Box 52310, Houston, Texas, 77052

Our Tester \_\_\_\_\_ Approved by \_\_\_\_\_



McKenzie Prospect  
Lousberg #1

01/11/74           Waiting on 4 point test.  
 01/12/74           SI.  
 01/13/74           SI.  
 01/14/74           SI.  
 01/15/74           SI.  
 01/16/74           Began 4 point potential test.  
 01/17/74           Will have 4 point results this p.m.  
 01/18/74           Waiting on 4 point test.  
 0 1/19/74          Waiting on 4 point test.  
 01/20/74          SIBHP 1478#, 4 point results as follows:

<u>Choke</u>	<u>FTP</u>	<u>FCP</u>	<u>Rate</u>
10/64	820	980	1190
17/64	580	880	1576
23/64	477	808	1755
30/64	362	760	1888

CAOF 2.450 M<sup>2</sup>CFPD. Produced 63 BW and 21 bbls distillate in 24 hrs.  
 Drop from report and negotiation for gas market.