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DAVID E. SMINK, P.E.

PETROLEUM CONSULTANT  
928 MIDLAND SAVINGS BLDG.  
444 - 17TH STREET  
DENVER, COLORADO 80202

AREA CODE 303  
BUS. 892-1732  
RES. 798-9973

Romac Exploration Co.

COLO. OIL &amp; GAS CONS. COMM.

Vern Harley 29-1

S/2, NW/4, Sect. 29, T 9N, R 52W

Logan Co., Colorado

DATESUMMARY OF OPERATIONS

- 3/18/81 KMI traveled (drove) to Sterling, Colo., and to location. SITP = 1100, SICP = 0. Moved in and rigged up completion unit. (Yetter Well Service) Rigged up Halliburton. Equalized packer and killed well by reverse circulation with 2% KCl water containing 0.1% Cla-Sta. Raised packer from 4575' to 4392' and re-set it. Squeeze-cemented perforations 4596-4600' and 4614-24' with 60 sacks Class "G" containing 0.7% Halad 9 to a final pressure of 2,000 psi. Reversed well clean. Rigged down Halliburton. Pulled tubing and packer. Ran 3 7/8" bit and casing scraper to 3050'. Shut well in. Rigged up power swivel.
- 3/19/81 Lowered bit, tagged top of cement at 4425'. Drilled hard cement from 4425' to 4624'. Ran bit down-hole to 4734'. Rigged up Halliburton. Tested squeeze job to 1500 psi for 15 min. Spotted 300 gal. 10% MSA (Acetic) acid from 4730' to 4230'. Shut well in.
- 3/20/81 Rigged down power swivel. Pulled tubing, casing scraper, and bit. Rigged up Schlumberger. Perforated 4596-4600', 4608-10', and 4614-22' FDC with two JSPF with a 3 3/8" OD Hyper-Jet II casing gun. Rigged down Schlumberger. Ran 4 1/2" Baker Model "R-3" packer and PSN on 142 joints tubing, set packer at 4575'. Rigged up swab. Swabbed well down to PSN at 4568'. Well began flowing, then died. Shut well in.
- 3/21/81 (Snow and blowing snow this AM.) SITP = 520. Bled TP to 0, rigged up swab. Well began to flow. Rigged up Cable portable test separator. Put well on test at 7:30 PM. Tested well as follows, on a 32/64" choke, with FTP at approx. 230-235 psig:

	<u>Time</u>	<u>Gas-MCF/D</u>	<u>Water - BBL/Hr.</u>
3/22/81 (Sunday)	7:30 PM, 3/21	636	19.2
	3:30 AM, 3/22	810	19.3
	7:30 AM, 3/22	811	19.2
	10:30 AM, 3/22	813	19.1
	3:30 PM, 3/22	820	19.0
3/23/81	7:00 AM, 3/23	890	18.0

Shut well in. Rigged down portable test separator. Rigged down and moved out completion unit. KMI returned (drove) to Denver.

3-18-81

VERN HARTLEY 29-1  
LOGAN CO. COLORADO

ON LOCATION 0700AM  
TUBING PRESSURE .....1100 PSI  
CASING PRESSURE ..... 00

2% KCL WATER 172 BBLs. ON LOCATION.

RIGGED UP YETTER RIG. ALSO HALLIBURTON SERVICE.  
CALLED TIMCA RESOURCES TO BRING 80 BBLs. OF FRESH WATER TO LOCATION.

RIGGED UP MANAFOLE TO FILL BACKSIDE. LAYED AND STEAKED DOWN RETURN LINE TO TANK. IT TOOK ONLY 5 BBLs. TO FILL BACK SIDE. PICKED ON TUBING AND RELEASED BAKER PACKER. PUT WELL ON CHOCK TO TANK. PUMPED A TOTAL OF 130 BBLs. OF FLUID. WELL WAS DEAD. PULLED THREE STANDS OF TUBING APPROX. 183 FT. THIS PLACED PACKER AT 4392 FT. SET SAME AND PUMPED ON ZONE TO GET A RATE. 3 BBLs PER MIN. AT 1020 PSI. PUMPED 5 BBLs. OF FRESH WATER IN FRONT OF CEMENT. PUMPED 60 SAC. OF CLASS G CEMENT WITH 0.7 HALAD (12.3BBLs OF MIXED CEMENT) TOP OF CEMENT AT 4500 FT. @ 1500 PSI PRESSURED TO 1750 FOR 15 min. BLEED OF TO 1500, ONE BBL PASSED BOTTOM OF PACKER. (18bbls) PUMPED 1/4 BBL. PRESSURED UP TO 1750 BLEED OF TO 1500PSI. LET SET FOR 30 mins. PUMPED 1/4 BBL PRESSURED UP TO 1850 PSI BLEED OF TO 1750. LET SET FOR 30 mins. PUMPED 1/4 BBL PRESSURED UP TO 1950 PSI BLEED OF TO 1850. LET SET FOR 30 mins. PUMPED 1/4 BBL PRESSURED UP TO 2020 PSI HELT FOR 15min. RELEASED PACKER AND REVERCED OUT. WITH SIXTY BBLs. RIGGED DOWN HALLIBURTON AND STARTED OUT OF THE HOLE WITH TUBING. LAYED DOWN BAKER PACKER AND PICKED UP SCRAPPER AND BIT. RAN 50 STANDS OF TUBING (3050 ft ) BACK INTO WELL AND PACKED OFF WELL HEAD. RIGGED UP SWEEVEL TO WASH CEMENT.

3-19-81

RAN THE REST OF THE TUBING 18 STANDS AND TAGGED THE TOP OF THE CEMENT AT 4,424.93 FT. USED DOTCO STRIPPER HEAD WHILL DRILLING.

TOP OF CEMENT ..... 4424.93  
DRILLED OUT ..... 199.07  
TOTAL DEPTH..... 4624.00

RAN. 4426.93 TUBING AND 4.00 SCRAPPER AND BIT TOTAL 4423.93  
DRILLED OUT CEMENT AND PICKED UP 94.08 TUBING. END OF TUBING AND BIT AT. 4718.08 FT. SPOT ACID AT 4730 TO 4230

TESTED CASING TO 1500PSI FOR 15 mins. SPOTTED 300 GALS OF 10% MSA ( ACETIC ACID ) WITH TWO WEEKS OF INHIBITED AT 175 OF WITH ONE GALLON OF CLAY STAY. SHUT DOWN DUE TO DARKNESS. 730 PM.

3-20-81

CALLED SCHLUMBERGER TO BE ON LOCATION AT 830 AM.  
PRESSURE ON WELL zero

LAYED DOWN SWEEVEL. STARTED CUT OF HOLE WITH TUBING , BIT AND SCRAPER.

RIGGED UP SCHLUMBERGER AND RAN 3 3/8 O.D. GUN. PERFORATE THE FOLLOWING  
FDC INTERVALS WITH TWO JSPF , HYPER-JET II CASING GUN.

4596-4600 ( 9 shots ) 4608 - 4610 ( 5 shots ) and 4614- 4622 ( 17 shots)

RAN A BAKER MDL R-3 4 1/2 PACKER, SEATING NIPPLE I 25/32 AND I42 JTS OF  
2 3/8 EUE 8 RD TUBING. TO A DEPTH OF 4575 ft.

MADE TWO SWAB RUNS SWABED 8 BELS OF FLUID BEFORE SETTING PACKER WITH  
10,000 WEIGHT DOWN ON PACKER.

SWABED DOWN TO SEATING NIPPLE WELL TRYED TO FLOW THEN DIED. SHUT DOWN FOR  
THE NIGHT.

3-21-81

ON LOCATION 0700  
WEATHER BAD BLOWING WIND AND SNOW  
WELL PRESSURE 520 PSI.

BLEED WELL TO ZERO RIGGED UP TO SWAB. THEN THE WELL STARTED TO FLOW.  
UNLOADED APPROX. 15 BBLs. OF WATER. PLACED WELL ON 25/64 CHOCK. WELL  
FLOWED FOR ABOUT 2 HOURS MAKING 5 BBLs OF WATER PER HOUR. STARTED TO DIE.  
OPENED TO A 36/64 CHOCK. WELL CONTINUE TO FLOW AT 5 BBLs PER HOUR.  
SENT RIG CREW TO THE HOUSE. CALLED CABLE TOOL CO. ABOUT RUNNING A 4 POINT.  
CABLE DID NOT WANT TO SET UP TODAY UNTILL WELL HAD FLOWED MORE.  
I TALKED TO DAVID SMINK ABOUT THIS AND HE ASK THAT WE GO AHEAD AND PLACE  
THE WELL ON TEST. BUD WRIGHT WITH CABLE DELIVERED THE TEST EQUIPMENT  
TO LOCATION . TEX,S ROUSTABOUT CAME OUT TO HELP INSTALL BETER.  
THE TESTER WAS ON THE LINE BY 730 PM. AFTER ONE HOUR FLOW TEST ON  
A 32/64 CHOCK THE WELL GIVE UP 635mcf and 19 BBLs. OF WATER.

## TEST OVER NIGHT:

TIME	MCF GAS	BBLs OF FLUID
730 PM	635,808	19.16
3-22-81		
330 AM	809,688	19.27
730 AM	811,361	19.18
1030 AM	813,033	19.05
330 PM	820,000	19.0

IN 20 HRS. MADE 382.64 BBLs. =19.132 BBLs PER HOUR.  
GAS INCREASE AND FLUID DECLINE.

3-23-81

STOP TEST AT 0700

WHI

THE WELL FLOWED 890mcf AND 18 BBLs WATER PER HOUR.  
ON LAST PART OF TEST . RIGGED DOWN TESTER AND RIG.