



## Well History

**Well Name: SCHAFFER PM K 16-09**

API 05123141550000		Surface Legal Location NESE 16-4N-66W		Field Name WATTENBERG		State CO		Well Configuration Type VERTICAL	
Ground Elevation (ft) 4,743.00	Original KB Elevation (ft) 4,756.00	KB-Ground Distance (ft) 13.00	Spud Date 2/28/1989 00:00	Rig Release Date 3/6/1989 00:00	On Production Date 4/7/1989	Abandon Date 1/19/2021			

### Daily Operations

Start Date	Summary	End Date
1/31/2014	<p>HELD SAFETY MEETING CHECKED PRESSURE ON WELL 0 PSI TRIP IN WELL WITH 1 1/4 CSH 149 JTS 4701 FT CIRCULATE WELL BJ WAS LATE TO LOCATION HAD A 12 O CLOCK LOCATION TIME WAS NOT GOING TO BE THERE UNTIL 1430 NOT ENOUGH TIME TO CEMENT BOTH ZONES AND RESEAT THE 4 1/2 SLIPS CANCEL CEMENT JOB UNTIL MONDAY TRIP OUT OF WELL CLOSE IN WELL SHUT DOWN FOR WEEK END</p> <p>ALL COSTS GOES TO THE SCHAFFER K16-64-1HN AFE 135543</p>	1/31/2014
2/3/2014	<p>HELD SAFETY MEETING CHECKED PRESSURE ON WELL 0 PSI TRIP IN WELL WITH 149 JTS OF 1 1/4 CSH 4701 FT CIRCULATE WELL RIG UP BAKER HUGHES HELD SAFETY MEETING TESTED LINES TO 4500 PSI TOP PRESSURE 3500 PSI MIX AND PUMP 225 SKS 50/50 POS 13.5 PPG 69 BBL DISP. WITH 2 BBL PULL 1 1/4 UP TO 500 FT ROLL WELL MIX AND PUMPED 52 BBL OF G NEAT 254 SKS AT 15.8 PPG CEMENT RETURN TO SURFACE DISP 2 BBL LAY DOWN TUBING 16 JTS 500 FT RESET 4 1/2 SLIPS AND CASING INSTALL 5000 PSI WELL HEAD BOTTOM FLANGE INSTALL BOPS LAY DOWN 1 1/4 CSH FROM DERRICK CLOSE IN WELL SHUT DOWN FOR NIGHT .</p> <p>ALL COSTS GO TO THE SCHAFFER K 16-64-1HN AFE135543</p>	2/3/2014
2/4/2014	<p>HELD SAFETY MEETING CHECKED PRESSURE ON WELL 0 PSI LOAD WELL RIG UP NABORS WIRE LINE RUN CBL FROM 5000 FT TO SURFACE RIG WIRE LINE DOWN LAY DOWN 20 JTS PICK UP SEAT NIPPLE RETREIVING HEAD TRIP IN WELL WITH 188 JTS 2 3/8 TUBING HANG TUBING AT 6370.66 FT REMOVE BOPS INSTALL TOP WELL HEAD FLANGE WITH SEAT NIPPLE BETWEEN MASTER VALVE AND TOP WELL HEAD FLANGE CLOSE IN WELL RIG DOWN SHUT DOWN FOR NIGHT</p> <p>ALL COSTS GO TO THE SCHAFFER K16-64-1HN AFE 135543</p>	2/4/2014
4/2/2014	<p>MIRU LEED RIG 715 WELL WAS DEAD THIS AM, OPENED WELL TO FLAT TANK. N/D WELL HEAD TREE AND N/U BOPS. P/U TALLY IN OFF SILLS 8 JTS 2 3/8" 4.70# J-55 8 RD TBG AND TAGGED SAND PLUG @ 252' BELOW EOT ( 6622' KB). R/U TIW VALVE AND RIG PUMP. LOADED TBG AND BACKSIDE, ESTABLISHED CIRCULATION AND ROLLED HOLE CLEAN. LATCHED ONTO RBP AND RELEASED. POOH TALLY OUT TO DERRICK 215 JTS 2 3/8" 4.70# J-55 8 RD TBG. NOTE TBG LOOKED TO BE IN GOOD SHAPE. L/D RBP AND RETRIEVING/SETTING HEAD. R/U HOLE SEEKERS TESTING AND P/U SN/NC. TESTED IN OUT OF DERRICK 215 JTS 2 3/8" TBG AND P/U TALLY IN OFF SILLS 12 JTS 2 3/8" TBG AND (2) 10' PUP JTS. TESTED TO 6500 PSI. ALL JTS TESTED GOOD. R/D HOLE SEEKERS TESTING. P/U OFF SILLS AND RIH 6 JTS 2 3/8" TBG AND TAGGED FILL W/ 233 JTS @ 7428' KB. LEAVING 160' OF RAT HOLE. NO C/O NECESSARY. POOH L/D ON SILLS 6 JTS 2 3/8" TBG. N/D BOPS AND LANDED TBG W/ A TOTAL OF 227 JTS 2 3/8" 4.70# J-55 8 RD TBG AND (2) 10' PUP JTS TBG @ 7238.59' KB ( 13' ABOVE TOP CODELL PERFS). N/U 2 3/8" ARAY MASTER VALVE AND 5 K BACKSIDE VALVES. SWI, RDMO, RWTP.</p> <p>ALL COSTS GO TO THE SCHAFFER K16-64-1HN AFE 135543</p>	4/2/2014
4/11/2014	SWABBING RIG ON LOC	4/11/2014

### Abandon Well LOE, 1/18/2021 11:00

Job Category Abandon	Primary Job Type Abandon Well LOE	Start Date 1/18/2021	End Date 1/19/2021	Objective PLUG AND ABANDON WELL
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### Daily Operations

Start Date	Summary	End Date
1/18/2021	<p>MIRU ENSIGN RIG 312 HELD SAFETY MEETING. EQUIPMENT TO LOCATION. SITP 175 PSI, SICP 540 PSI, SIBH 0 PSI. SPOTTED IN EQUIPMENT, R/U RIG 312, R/U PUMP AND LINES. BLEW TBG AND CSG DOWN TO 70 PSI TO RIG TANK, BROKE CIRCULATION WITH 110 BBLs, ROLLED HOLE FOR 1.5 HRS TO ELIMINATE ALL OIL AND GAS FROM WELLBORE. N/D PRODUCTION TREE, N/U AND FUNCTION TESTED BOP STACK, R/U RIG FLOOR AND HANDLING TOOLS. UNLANDED TBG, LAID DOWN 101 JTS ONTO TBG TRAILER, TOOH WITH 13 STANDS (26 JTS) TO DERRICK LEAVING 100 JTS IN THE HOLE. SECURED WELL AND SHUT IN FOR THE NIGHT. CREW TRAVEL HOME.</p>	1/18/2021



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### Daily Operations

Start Date	Summary	End Date
1/19/2021	<p>CREW TRAVEL TO LOCATION.</p> <p>HELD SAFETY MEETING. SITP 0 PSI, SICP 0 PSI, SIBH 0 PSI. BROKE CIRCULATION WITH 15 BBLS, ROLLED HOLE FOR 45 MINUTES, SHUT DOWN PUMP, WELL STATIC. TOOHP WITH 50 STANDS (100 JTS) TO DERRICK (TOTAL OF 227 JTS PULLED FROM WELL). R/U WIRELINE, RIH WITH 4.5" GAUGE RING TO 6925', POOH, RIH WITH 4.5" CIBP AND SET @ 6904', GOOD SET, POOH, RIH AND DUMP BAILED 2 SXS CEMENT ON TOP OF PLUG, POOH. FILLED CSG WITH 3 BBLS AND PRESSURED UP TO 1000 PSI, HELD FOR 10 MINUTES WITH 0 PSI LOSS, GOOD TEST. RIH WITH CBL AND LOGGED FROM 4500'-SURFACE, LOG SHOWED FREE CSG FROM 4500'-530' AND CEMENT FROM 530'-SURFACE. RIH WITH 3 1/8" PERF GUN (3 SPF) AND SHOT SQUEEZE HOLES @ 4300' AND 4100', POOH, RIH WITH 4.5" CICR AND SET @ 4115', GOOD SET, POOH, R/D WIRELINE. MADE UP BHA OF STINGER, TIH WITH TBG AND TAGGED CICR @ 4115', SPACED OUT, STUNG INTO CICR. R/U NEXTIER CEMENT, PRESSURE TESTED IRON TO 2000 PSI, GOOD TEST. PUMPED 7 BBLS FW TO ESTABLISH AN INJECTION RATE OF 1.5 BBLS/MIN @ 300 PSI. PUMPED 100 SXS (20.4 BBLS) 15.8#'G' CEMENT, DISPLACED TBG WITH 13.9 BBLS TO PLACE 90 SXS BELOW AND 10 SXS ON TOP OF CICR, MAINTAINED GOOD CIRCULATION THROUGH OUT JOB, R/D CEMENT. STUNG OUT OF CICR, TOOHP WITH 19 STANDS (38 JTS), LAID DOWN REST OF TBG ONTO TRAILER. R/U WIRELINE, RIH WITH 3 1/8" PERF GUN (3 SPF) AND SHOT SQUEEZE HOLES @ 1420' AND 1220', POOH, RIH WITH 4.5" CICR AND SET @ 1235', GOOD SET, POOH, R/D WIRELINE. TIH WITH TBG AND TAGGED CICR @ 1235', SPACED OUT, STUNG INTO CICR. R/U NEXTIER CEMENT. PUMPED 6 BBLS FW TO ESTABLISH AN INJECTION RATE OF 2 BBLS/MIN @ 200 PSI. PUMPED 100 SXS (20.4 BBLS) 15.8#'G' CEMENT, DISPLACED TBG WITH 2.7 BBLS TO PLACE 90 SXS BELOW AND 10 SXS ON TOP OF CICR, MAINTAINED GOOD CIRCULATION THROUGH OUT JOB. STUNG OUT OF CICR, LAID DOWN 21 JTS TO PLACE EOT @ 539' JT #17. PUMPED 2 BBLS FW FOLLOWED BY 44 SXS (9 BBLS) 15.8#'G' CEMENT TO BRING CEMENT TO SURFACE, MAINTAINED GOOD CIRCULATION THROUGH OUT JOB. LAID DOWN TBG ONTO TRAILER. CONTINUED</p>	1/19/2021
1/19/2021	<p>R/D RIG FLOOR AND HANDLING TOOLS, N/D BOP STACK. TOP CAPPED WELL WITH 6 SXS (1.3 BBLS), R/D CEMENT. R/D RIG 312, RACKED OUT PUMP AND LINES. SECURED WELL AND SHUT IN, PLACED FENCING BACK AROUND WELL, CLEANED UP LOCATION. WILL WAIT REQUIRED 5 DAY PERIOD THEN DIG UP WELL. CUT AND CAP WELL 6' BELOW GROUND LEVEL. WELD ON MARKER PLATE AND BURY WELL. TURNED OVER TO THE CONSTRUCTION DEPT TO ABANDON FLOWLINE.</p> <p>THIS IS THE FINAL REPORT.</p> <p>NOTE THERE WAS NO CASING RECOVERED FROM THIS WELL. THERE WAS 227 JTS 2 3/8" 4.7# J-55 8RD TBG SOLD TO KARST.</p>	1/19/2021