



## Rig Operations Summary

Well Name: RKW 01

API 0512310763	Surface Legal Location SWNE 24 5N 66W	Field Name WATTENBERG	License #	State/Province COLORADO	Well Configuration Type VERTICAL
Original KB Elevation (ft)	KB-Tubing Head Distance (ft)	Spud Date Production 7/16/1982 00:00	Rig Release Date 7/25/1982 00:00	PBTD (All) (ftKB)	Total Depth All (TVD) (ftKB)

Job Category WORKOVER	Primary Job Type P&A	Secondary Job Type Other	Status 1 COMPLETED
AFE Number 2000044	Start Date 2/27/2020	End Date 3/19/2020	Total AFE Amount (Cost) 152,250.00

Objective  
Plug and abandon well.

Summary

Contractor RANGER ENERGY SERVICES	Rig Number \ Crew 30	Rig Type Workover
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Rpt #	Start Date	End Date	Summary
1.0	2/27/2020	2/28/2020	HSM/JSA, TRAVEL TO LOCATION & CHECK CONDITIONS, TRAVEL TO ASH PAD, CREW PREPPING EQUIP & RIG TO MOBILIZE, PUT HOSES IN HEATERS & MOVE TO SIDE OF LOCATION (RELEASED HEATERS TO ETN), LOAD OUT PUMP, TANK & BEAM, MO TO RKW 1. MI RES #30 & RELATED EQUIP, CHAD ARRANGED FOR SKIDSTER TO CLEAN MUD OFF CITY STREET, SET BEAM & RUPU, SPOT PUMP & TANK RU HARD LINES, FILL RIG TANK W/ 130 BBL TFW, PU RIG FLOOR & REPIN TO DERRICK, SPOT IN DRILL COLLAR TRAILER & TBG FLOAT, TALLY DC & PREP BHA, TALLY & PREP TOP ROW OF 2 7/8" 6.5# EUE YB D&T TBG, REINSTALL BIRD BATH & WASHINGTON HEAD, SPOT IN POWER SWIVEL, CHG HANDLING EQUIP, SECURED WELL & EQUIP., SDFN.
2.0	2/28/2020	2/29/2020	HSM/JSA, STRIP DC & 7 7/8" BIT IH, BOLT UP XO & BOP, RU DEAD LINES & RU POWER SWIVEL, KELLY UP & BREAK CIRC, WASHINGTON HEAD FLANGE LEAKING, UNABLE TO TIGHTEN, ND & STRIP BIT OOH, UNBOLT HEAD & FOUND RING UPSIDE DWN, REPLACED RING & STRIP BIT BIH, BOLT UP HEAD BACK TO BOP, ESTABLISH CIRC & LOWER TO TAG @ 3', D/O 10' HARD CEMENT & FELL THRU HAD NOTICABLE GAS W/ TRACE OF OIL TO TANK CIRC DC ALL IN TO 32' CLEAN RETURNS NO GAS / OIL TO SURFACE, STRIP BIT BACK OOH, HAVING ISSUES W/ SWIVEL, HAD TO BREAK DC OFF SWIVEL W/ WRENCHES, LD DC & RACK SWIVEL, CALL FOR REPLACEMENT SWIVEL, SWI TIGHT SECURE WELL & EQUIP., SDFWE. (RANGER IS REPLACING RIG CREW MONDAY MORNING DUE TO UNGOING ISSUES & PERFORMANCE).
3.0	2/29/2020	3/1/2020	SDFWE
4.0	3/1/2020	3/2/2020	SDFWE
5.0	3/2/2020	3/3/2020	HSM/JSA, RU POWER SWIVEL & STRIP BIT BIH, BOLT UP BOPS, PU DC & RIH TO TAG REPORTED TOC @ SHOE 234', DO SHOE CEMENT & CONTINUE TO RIH TO TAG REPORTED TOC @ 4350', PROCEED ACCORDINGLY.
6.0	3/3/2020	3/4/2020	HSM/JSA, DIG OUT SURFACE CSG TO 3' BELOW WELDED CONNECTION, DID NOT UNCOVER LEAK, POOH & LD 5 DC MU 2 7/8" XO & RBIH W/ TBG OOD, TAG UP @ 320' ON JNT 9 ALL IN SET DWN ON TAG NO MOVEMENT, PU W/ NO OVERPULL, POOH & LD TBG ON FLOAT, RUN REMAING TBG OOD & LD, NDBOP & STRIP BIT OOH W/ DRILL COLLAR, ND XO SPOOL & WH, RDPU & MO W/ BASE BEAM, RD HARD LINE, MOVE TBG & DC TRAILERS, ACCUMULATOR & SWIVEL, MI BACKHOE & DIG OUT SURFACE CSG, MU 8 5/8" SC HEAD W/ BLANKED & PORTED TOP NUT, KELLY UP TO WELL & PUMP 1/4 BBL TO EXPOSE LEAK, FOUND SIGNIFICANT SPLIT @ EST 17' BELOW GL, BACKHOE WORKED TO BUILD SLOPE & EGRESS, SECURE SITE W/ SECURITY FENCING, SDFN.
7.0	3/4/2020	3/5/2020	DIG OUT SURFACE CASING & PATCH
8.0	3/5/2020	3/6/2020	HSM/JSA, RE-SPOT BASE BEAM, MIRU RES 30, RE-SPOT TRAILERS, ACCUMULATOR, ETC., ND 8 5/8" SC HEAD, NU WH, XO SPOOL & BOP, RU FLOOR & HANDLING EQUIP., RU HARD LINES, DIG CELLER AROUND WELLHEAD, MU 2 7/8" MS TO TBG & RIH W/ 7 JNTS TO 221' MD, KELLY UP & PUMP TFW DWN SC @ 2 BPM / 0 PSI, PUMP 20 BBLS NO SIGN OF FLUID TO SURFACE (LOST 6 BBLS), PUMP @ 2 BPM/ 0 PSI RETURN RATE EST @ 1.3 BBL, PUMPED 30 BBLS TO GET FLUID TO SURFACE, PUMPED A TOTAL OF 40 BBL FW LOST 14 BBL, POOH & LD TBG, CALL FOR CEMENT, MI RES CE & FW TRK, MI RES VAC TRUCK & SPOT IN TO PULL WATER FROM CELLER, HJSA, RUCE TO SC, PUMP .5 BBL FW CIRC WATER TO SURFACE, M/W & PUMP 40 SKS / 8 BBLS 15.8 PPG / 1.15Y C + 2.5% CaCl2, CIRC GOOD CEMENT TO SURFACE, SD CSG ON VAC, CLEAR LINES & DISPL W/ 1/2 BBL, ND OFF WELL & SWI TIGHT, WASH UP CE & MOVE OFF, SECURE WELL & EQUIP., SDFN.
9.0	3/6/2020	3/7/2020	HSM/JSA, SI W/ VACUUM, MU MS TO 2 7/8" EUE & RIH TO 253' MD W/ 8 JNTS NO TAG, LD 1 JNT TO EOT = 221', RU TO CIRC CONVENTIONAL @ 2 BPM / 0 PSI LOST 8 BBL IN FIRST 10 MIN, NO FURTHER FLUID LOSS, CIRC 35 MIN NO FLUID TO SURFACE, SI CSG & PRESS SC TO 51 PSI LOST 9 PSI IN 15 MIN., SLIGHT WH LEAK, ATTMPT TO TIGHTEN SPOOL & STOP LEAK, PRESS BK TO 55 PSI 5 MIN 50 PSI 10 MIN 48 PSI 15 MIN 46 PSI, WH LEAK REMAINED, POOH W/ TBG, NDBOP & STRIP 7 7/8" TRI CONE BIT & 3 1/2" DC IH, BOLT UP BOP & RIH W/ REMAINING 5 DRILL COLLARS, MU XO & 2 7/8" EUE, RIH TO TAG @ 315' MD, UNABLE TO WORK PAST TAG, RUPS & EST CIRC DWN TBG @ 2 BPM/ 100 TO 150 PSI, CIRC IH W/O ROTATION TO 817' MD, CIRC BU + RECOVERING EXTREMELY HVY MUD, FINES & TRASH W/ TRACE OF GAS, HAVING ISSUES CIRC HVY MUD W/ RIG PUMP, LD 1 JNT W/ SWIVEL, POOH & SB 18 JNTS TO 1 JNT + BHA LIH @ 222', MU TIW & SWI TIGHT, SECURE WELL & EQUIP., SDFN. (CALL FOR VAC TRUCK TO PULL HVY MUD & SOLIDS FROM RIG TANK & RE-FILL W/ TFW BY MORNING)

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Rpt #	Start Date	End Date	Summary
10.0	3/7/2020	3/8/2020	HSM/JSA, BOTTOM OUT RIG TANK & REFILLED W/ TFW, WELL SI SLIGHT W/ VACUUM, RBIH W/ 18 JNTS 2 7/8" OOD, SWIVEL UP ON JNT 19 & MU TO STRING EOT @ 815' MD, ESTABLISH CONVENTIONAL CIRC @ 2.3 BPM / 400 PSI, CIRC BU RECOVER LARGE AMOUNT OF SOLIDS W/ HVY MUD & TRACE GAS, PU 2 7/8" EUE & CIRC IH TO 1100' RIG PUMP HAVING ISSUES CIRC HVY MUD, SET REPLACEMENT PUMP & SWITCH LINES, CIRC IH TO 1400' PUMP MOTOR OVERHEATING, RESOLVE ISSUE & CONTINUE TO CIRC IH TO 1589' MD W/ 44 JNTS 2 7/8" + BHA, CIRC 1 HR + @ 2.0 BPM / 500 - 600 PSI UNABLE TO CIRCULATE CLEAN, CALL FOR LOAD OF FW, PUMP STRUGGLING TO MOVE HVY MUD, PUMP HAMMERING LINES & HOSES DUE TO MUD BUILDUP, LD 1 JNT W/ SWIVEL & STAND BACK, POOH TO DERRIC W/ 42 JNTS TO 1 JNT & BHA LIH @ 222', MU TIW & SWI TIGHT, SECURE WELL & EQUIP., SDFN.
11.0	3/8/2020	3/9/2020	HSM/JSA, WELL SI SLIGHT VAC, PUT PUMP BK TOGETHER & PRIME, RBIH W/ TBG OOD & PU SINGLE, SWIVEL UP ON JNT 45 EOT @ 1600', PUMP 80 BBL TFW DWN TBG DISPLACE HVY MUD & SOLIDS BK TO WORK TK, MI TRANSPORT W/ 130 BBL TFW & RU DIRECT TO PUMP, PUMP DWN TBG & CONTINUE TO DISPLACE HVY MUD & SOLIDS W/ TRACE OF GAS FROM WB, MI EMPTY VAC TRUCK PULL HVY MUD FROM WRK TANK & HAUL TO DISPOSEL, CIRC JNT 45 & 46 IH TO 1662' MD, POWER SWIVEL LEAKING @ KELLY COCK UNABLE TO TIGHTEN, ALSO HAVING ISSUES W/ RIG PUMP MOTOR, TROUBLESHOOT ISSUE UNSUCCESSFULLY CALLED MECHANIC BK TO LOCATION SWITCH BK TO OTHER PUMP, DISPOSEL SD TODAY UNABLE TO UNLOAD MUD, LIMITED CAPACITY IN WORK TANK DUE TO SOLIDS, HYDRO VAC UNAVAILABLE UNTIL LATE TODAY, UNABLE TO CONTINUE OPS, LD SINGEL & RACK SWIVEL, POOH BK TO DERRICK TO 1 JNT + BHA LIH, SWI TIGHT & SECURE, SDFN. ( HYDRO VAC SCHEDULED TO CLEAN WORK TK THIS AFTERNOON, ALSO, CALLED FOR ADDITIONAL WORK TK & FRAC TANK TO BE SET, PUMP MOTER & SWIVEL TO BE REPAIRED)
12.0	3/9/2020	3/10/2020	SD DUE TO MUD
13.0	3/10/2020	3/11/2020	HSM/JSA, TRAVEL TO LOCATION CHECK LEASE ROAD & LOCATION, CALL FOR WATER TRUCKS, HYDRO VAC & STREET CLEANING CREW CHAIN UP TRUCKS & MI TO LOCATION, FILL FRAC TK W/ 260 BBL TFW, HAVE HYDRO VAC CLEAN SOLIDS OUT OF WORK TANK, WSI W/ SLIGHT BLOW BDI NO FLOW, RBIH W/ 2 7/8" EUE OOD + SINGLE TO 46 JNTS + BHA IH @ 1662', WORK BIT THRU CONSISTENT TIGHT SPOT FROM 500' TO 680', SWIVEL UP ON JNT 47, RU SUCTION TO FRAC TK & PUMP DWN TBG @ 2.5 BPM / 300 PSI, DISPLACE 150 BBL HVY MUD & SOLIDS TO WORK TANK, SOLIDS DECREASED & FLUID LIGHT ENOUGH TO RESUME CONVENTIONAL CIRCULATION, CIRC IH TO 2340' W/ 68 JNTS + BHA, CIRC BU + @ 2.5 BPM / 300 PSI, SC PRESS = 75 PSI, RETURNS CLEAN MINIMAL SOLIDS W/ LIGHT MUD, CONSISTENT TRACE OF GAS THROUGHOUT THE DAY, LD SINGLE W/ SWIVEL & SB, POOH TO DERRICK W/ 66 JNTS TO 1 JNT + BHA LIH @ 222', MU TIW SWI TIGHT, SECURE WELL & EQUIP., SDFN.
14.0	3/11/2020	3/12/2020	HSM/JSA, WSI W/ 5 PSI BDI NO FLOW, RBIH W/ 2 7/8" EUE, TAG 15' IN ON JNT 66 @2335' RUPS & BRK CONV CIRC @ 2.5 BPM / 600 PSI CIRC 15 MIN PRESS DOWN TO 400 PSI, SC @ 59 PSI CIRC IH TO 2345', FLUID TO SURFACE 10' OFF WH, SC PRESS DOWN TO 9 PSI, LOST 7 BBLs, SD PUMP LD TAG JNT & RACK SWIVEL, POOH TO DERRICK W/ 64 JNTS 2 7/8" EUE, LD 6 DRILL COLLARS, 7 7/8" BIT & BIT SIB, RBIH W/ 7 JNTS 2 7/8" + 12' SUBS EOT @ 233', DISPLACE WB W/ FW, MI RES CE HJSA & RU TO TBG TEST LINES, M/W & PUMP 15 BBL / 72 SKS 15.8 PPG / 1.15Y + 3% CaCl2 @ 1.5 BPM, CEMENT @ SURFACE, SI SC & SQUEEZE 4.5 BBL 22 SKS DOWN TBG @ 1/2 BPM FP = 320 PSI SD PUMP, SC PRESS HELD @ 300 PSI SEVERAL MINUTES, BLEED OFF & RDCE, POOH W/ TBG, OBSERVE FLUID LEVEL @ 20', TOP OFF W/ 1.2 BBL FW, SWI TIGHT, RDCE & MO, SECURE WELL & EQUIP., SDFN.
15.0	3/12/2020	3/13/2020	HSM/JSA, WSI W/ 2 PSI BDI NO FLOW, RIH W/ TBG & TAG SOLID TOC @ 16', POOH & RUPS ON 2 7/8" EUE, STRIP 7 7/8" BIT & BS IH ON 2 7/8" EUE, MU BOP & WH BK TO 8 5/8" CSG, LOWER TO TAG & EST CIRC @ 1.5 TO 2 BPM / 0 PSI & BEGIN TO D/O CEMENT, D/O HARD CEMENT TO 126' CONSISTENT RETURNS NO FLUID LOSS, CIRC CLEAN LD 1 JNT W/ SWIVEL & SB, MU TIW & SWI TIGHT, SECURE WELL & EQUIP., SDFN. (NOTE: STARTED DAY W/ NEW OPERATOR & 2 LIMITED EXPERIENCED HANDS, MID AFTERNOON FLOOR HAND COMPLAINED OF BACKACHE WAS MADE TO STOP WORK UNTIL EVALUATED & ALLOWED TO FINISH THE DAY)
16.0	3/13/2020	3/14/2020	HSM/JSA, SI W/ 3 PSI BDI NO FLOW, RBIH TO 126' W/ 4 JNTS, SWIVEL UP ON JNT 5 EST CONV CIRC @ 2 BPM / 0 PSI, LOWER TO TAG & BEGIN TO D/O HARD CEMENT, DRILL THRU CEMENT ON JNT 8 @ 225', CONTINUE TO CIRC IH, DRILLED A COUPLE STRINGERS ABOVE SHOE @ 234', CIRC IH TO 347' W/ 10 JNTS ALL IN, CIRC CLEAN NO GAS TO SURFACE, NO FLUID LOSS, SB SWIVEL & LD 3 JNTS TO 7 LIH @ 221', SWI TIGHT SECURE WELL & EQUIP., SDFN.
17.0	3/14/2020	3/15/2020	HSM/JSA, WSI W/ SLIGHT VAC, RBIH W/ 2 7/8" EUE OOD, PU SINGEL & TAG @ 2272' MD W/ JNT 72 ALL IN, SWIVEL UP ON JNT 73, EST CONV CIRC @ 2.5 BPM / 300 PSI SURF CSG 60 PSI, CIRC HVY GAS CUT MUD W/ SIGNIFICANT SOLIDS TO SURFACE, LOWER TO TAG & WORK IH 10' TO 2282', PUMP PRESS UP TO 600 PSI LOSING CIRC, PU OFF BOTTOM W/ 5-10K OVERPULL, REGAIN CIRC WORK TBG FREE, CIRC EXTREMELY HVY MUD TO SURFACE, RU SECONDARY RETURN LINE OFF CSG TO TANK, ADD FW & 74L TO CIRC FLUID & CIRC WELL VOLUME, LOWER BK IH TAG BACK @ 2272' LOST 10' OF HOLE, UNABLE TO CIRC PAST TAG, PU OFF BOTTOM W/ OVERPULL WRK TBG FREE & ROTATE UP HOLE 15' & CIRC, SWIVEL STALLING, SLUGS OF SOLIDS IN RETURNS, APPEARS WB IS COLLAPSING,, CIRC PRESS RANGING FROM 200 TO 700 @ 2.5 BPM, CSG PRESS 100 TO 190 PSI, DEVELOPING WH LEAK @ SPOOL, GAS TO SURFACE INCREASED FROM YESTERDAY, LD 3 JNTS W/ SWIVEL & RACK, POOH TO DERRICK & STRIP 7 7/8" BIT OOH, SWI TIGHT, SECURE WELL & EQUIP., SDFN.

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18.0	3/15/2020	3/16/2020	HSM/JSA, WSI W/ 5 PSI BDI NO FLOW, MU 6 3/4" CONE BIT & BIT SUB TO 2 7/8" EUE, RIH OOD & PU SINGLE, TAG UP @ 2272', SWIVEL UP ON TAG JNT & EST CONV CIRC @ 2.5 BPM / 300 PSI SC = 50 PSI, CIRC HVY GAS CUT MUD & SOLIDS TO SURFACE, WORK TBG IH TO 2750' W/ 87 JNTS, CIRC BU & CONTINUE TO CIRC IH TO HARD TAG @ 3660', WORK JNT IH TO 3665' UNABLE TO CIRC PAST TAG, PU OFF TAG TO CIRC BU @ END OF DAY, CIRC SIGNIFICANT GAS TO SURFACE SC PRESS UP TO 110 PSI FROM 50PSI, CONTINUE TO CIRC BU +, PUMP 30 BBLs HVY MUD DWN TBG & 30 DWN CSG FROM SECONDARY WORK TANK, CALL FOR LIGHT PLANT, OPEN W/ SUSTAINED FLOW GAS CUT MUD, CONTINUE TO CIRC 3 BPM / 300 PSI SC = 110 PSI, CIRC 2.5HRS OPEN W/ MINIMAL FLOW, SPOT LIGHT PLANT & TURN ON, LIGHT PLANT DOWN SERVICE HAND UNABLE TO GET BACK ON, LD SWIVEL & RACK, POOH TO DERRICK W/ 11 STANDS, UNABLE TO CONTINUE OPS SAFELY, WELL TRYING TO UNLOAD, MU TIW & SWI TIGHT, SECURE WELL & EQUIP., SDFN.
19.0	3/16/2020	3/17/2020	HSM/JSA, WSI 60 PSI, BD LESS THEN 1 MIN., EOT @ 3000' BRK CONV CIRC @ 2.5 BPM / 100 PSI, CIRC GAS CUT MUD W/ SOLIDS, CIRC CAPACITY CONSISTENT GAS TO SURFACE, RBIH TO TAG @ 3534', RUPS & CIRC BK TO 3660' W/ JNT 116 28' IN, UNABLE TO CIRC PAST 3660', ROTATE ON TAG & PUSH TO 3665', PU W/ OVERPULL WORK ON TAG SIGNIFICANT INCREASE IN GAS TO SURFACE, WORK TBG IH & PU JNT 117, CONTINUE TO WORK ON TAG ROTATE JNT 117 ALL IN TO 3690', PU OFF BOTTOM PULLING OVER, LOSING HOLE EACH TIME, WORK BK TO 3690' SEVERAL TIMES, CIRC HVY MUD & COSTANT SOLIDS W/ SIGNIFICANT GAS, PU OFF TAG & CIRC BU @ 3 BPM / 300 PSI CP = 60 PSI, LOWER BK TO 3690' HAVING CIRC ISSUES LOST 12 BBLs WATER, PU OFF BOTTOM STICKY, SWIVEL 2 JNTS OOH & PULL 2 STANDS, CIRC @ 2.8 BPM / 300 PSI, CIRC GAS OUT TO SLIGHT TRACE, POOH TO DERRICK TO 7 JNTS LIH @ 221', SWI TIGHT, SECURE WELL & EQUIP., SDFN.
20.0	3/17/2020	3/18/2020	HSM/JSA, WSI W/ 15 PSI BDI NO FLOW, POOH & LD 7 7/8" BIT & SUB, MU 2 7/8" MS TO EUE & RIH TO 3660' W/ 116 JNTS, KELLY UP & BRK CIRC W/ LIGHT MUD, CIRC 2 HRS @ 2-3 BPM / 50 - 100 PSI, CIRC GAS TO SURFACE @ BU, CIRC ADD 55 MIN., NO GAS TO SURFACE, MI RES CE, HJSA & RU TO TBG, TEST LINES, PUMP 10 BBL MUD FLUSH 5 BBL FW, M/W & PUMP 95 SKS / 19.4 BBL 15.8 PPG / 1.15Y CG + 2% CaCL2 DISP TBG W/ 19.32 BBL TO ETOC @ 3327', RDCE & SB, POOH SLOWLY & LD TBG TO 80 JNTS LIH @ 2525', RUCE & EST CIRC W/ 3 BBL FW, M/W & PUMP 95 SKS / 19.4 BBL 15.8 PPG / 1.15Y CG + 2% DISPL TBG W/ 12.74 BBL TO ETOC @ 2202', RDCE & MO, POOH SLOWLY TO DERRICK W/ 2200' TBG & LD REMAINING, FILL CSG TO SURFACE W/ FW & SWI TIGHT, SECURE WELL & EQUIP., SDFN.
21.0	3/18/2020	3/19/2020	HSM/JSA, WSI SLIGHT VAC, RIH TAG TOC @ 2268', POOH & LD TO 12 JNTS LIH @ 378', MI RES CE HJSA & RU TO TBG, TEST LINES ESTAB CIRC W/ 4 BBL, M/W & PUMP 185 SKS / 38 BBL 15.8 / 1.15 CG + 2%CaCL2, (= 13 BBL OVER CALCULATED VOLUME) MAINTAINED GOOD CIRCULATION THROUGHOUT, NO CEMENT CIRC TO SURFACE, RDCE & MO, POOH & LD TBG, SWI TIGHT, SECURE WELL & EQUIP., SDFN.
22.0	3/19/2020	3/20/2020	HSM/JSA, SI W/ SLIGHT VAC RIH W/ TBG TAG SOLID TOC @ 130', PU OFF TAG, HJSA RU RES CE TO TBG & TEST LINES, EST CIRC W/ 4 BBL FW, M/W & PUMP 9 BBL / 44 SKS 15.8 PPG / 1.15Y G NEAT CIRC 1 BBL GOOD CEMENT TO TANK, RDCE & SB POOH & LD TBG, NDBOP, TOP FILL CSG TO SURFACE W/ 1 BBL / 5 SKS G NEAT CEMENT 6" BELOW WH, RDCE, SECURE WELL W/ BLANKED TOP NUT, RACK PUMP & TANK, RD HANDLING EQUIP & FLOOR, RDPU, UNABLE TO MOVE EQUIP OFF LOCATION DUE TO MUD, RE-ENTRY P&A COMPLETED.