

US ROCKIES REGION
Operation Summary Report

Well: KUGEL V 18-4		Spud date: 8/10/1993	
Project: COLORADO-WELD-NAD83-UTM13		Site: KUGEL V 18-4	Rig name no.: TEC 23/23
Event: CONST- CAP WELL WORK		Start date: 5/2/2017	End date:
Active datum: RKB @4,918.00usft (above Mean Sea Level)		UWI: NW/NW/0/2/N/67/W/18/0/0/6/PRIME/N/600.00/W/0/516.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
2/28/2017	9:00 - 10:00	1.00	WO/REP	53	B	P		FORM 17 TEST
4/28/2017	-							
5/2/2017	6:00 - 6:45	0.75	WO/REP	30	G	P		CT TO LOCATION
	6:45 - 7:00	0.25	WO/REP	48	B	P		JSA SAFETY MEETING (SEE SAFETY TAB)
	7:00 - 8:30	1.50	WO/REP	30	A	P		MI RIG & EQUIPMENT TO LOCATION
	7:00 - 7:00	0.00	WO/REP	52	I	P		SURFACE PRESSURE:0 PSI KEPT IT OPEN DURING DAILY OPS. TP:400, CP:400 PSI
	8:30 - 9:00	0.50	WO/REP	48	B	P		SAFETY MEETING WITH RIG CREW & COVENANT GATE WATCH CREW (SEE SAFETY TAB)
	9:00 - 11:00	2.00	WO/REP	30	A	P		RU TEC #23 RU PUMP & TANK
	11:00 - 12:00	1.00	WO/REP	31	H			CIRCULATED GAS OUT TO CONTROL WELL
	12:00 - 12:30	0.50	WO/REP	30	F	P		ND 3KWH NU 5KBOP
	12:30 - 13:00	0.50	WO/REP	31	I	P		RU WORK FLOOR & 2 1/16 TBG EQUIPMENT
	13:00 - 17:00	4.00	WO/REP	31	I	P		RU HOLE SEEKERS EMI UNIT TOO H TALLY OUT TOTAL 224 JTS 2 1/16 TBG LD 29 BAD JTS
	17:00 - 17:30	0.50	WO/REP	30	I	P		DRAINED PUMP & LINES SWI SDFN
	17:30 - 18:30	1.00	WO/REP	30	G	P		CT TO THE YARD
5/3/2017	6:00 - 6:45	0.75	WO/REP	30	G	P		CT TO LOCATION
	6:45 - 7:00	0.25	WO/REP	48	B	P		JSA SAFETY MEETING (SEE SAFETY TAB)
	7:00 - 7:00	0.00	WO/REP	52	I	P		SURFACE PRESSURE: 0 PSI KEPT IT OPEN DURING DAILY OPS CP:0 PSI
	7:00 - 10:30	3.50	WO/REP	35	E	P		RU SUMMIT SL & VES RIH TAG FILL @ 7444' GYRO SURVEY FROM 7400' TO SURFACE MAKING STOPS EVERY 100' RDSL
	10:30 - 12:30	2.00	WO/REP	31	I	P		PU & TIH RMOR 3.5" CSG SCRAPER TO 7400' W/227 JTS 2 1/16 TBG
	12:30 - 14:30	2.00	WO/REP	31	I	P		TOOH SB 2 1/16 TBG LD CSG SCRAPER
	14:30 - 16:30	2.00	WO/REP	31	G	P		PU & TIH RMOR 3.5" RBP SET IT @ 7370' W/226 JTS 2 1/16 TBG
	16:30 - 17:30	1.00	WO/REP	31	H	P		CIRCULATED GAS OUT
	17:30 - 17:45	0.25	WO/REP	52	G	P		PRESSURE TESTED RBP TO 1000 PSI LOST ALL PRESSURE IN 2 MINUTES, TRIED IT FOR 2 TIMES SAME RESULTS. (NOTIFIED RIGO CINTORA & SAMANTHA TRAN)
	17:45 - 18:00	0.25	WO/REP	31	I	P		TOOH SB 10 STDS
	18:00 - 18:15	0.25	WO/REP	31	H			SPOT 2 SX OF SAND ON RBP & FLUSHED IT W/15 BBLs OF WATER
	18:15 - 18:30	0.25	WO/REP	31	I	P		TOOH SB 10 STDS MORE SWI SDFN
	18:30 - 19:30	1.00	WO/REP	30	G	P		CT TO THE YARD
5/4/2017	6:00 - 6:45	0.75	WO/REP	30	G	P		CT TO LOCATION
	6:45 - 7:00	0.25	WO/REP	48	B	P		JSA SAFETY MEETING (SEE SAFETY TAB)
	7:00 - 9:00	2.00	WO/REP	31	I	P		TOOH SB 2 1/16 TBG LD RBP
	9:00 - 11:00	2.00	WO/REP	31	I	P		TIH RMOR 3.5" PKR TO PRESSURE TEST RBP AND OR HUNT CSG HOLE PKR

US ROCKIES REGION
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Well: KUGEL V 18-4

Spud date: 8/10/1993

Project: COLORADO-WELD-NAD83-UTM13

Site: KUGEL V 18-4

Rig name no.: TEC 23/23

Event: CONST- CAP WELL WORK

Start date: 5/2/2017

End date:

Active datum: RKB @4,918.00usft (above Mean Sea Level)

UWI: NW/NW/0/2/N/67/W/18/0/0/6/PRIME/N/600.00/W/0/516.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
	11:00 - 14:00	3.00	WO/REP	31	O	P		PKR SETTINGS: 4540' CSG HELD-TBG FAILED 5002' CSG HELD -TBG FAILED 7330' CSG FAILED-TBG FAILED 6559' GOT CIRCULATION PKR HAD FAILED
	14:00 - 16:00	2.00	WO/REP	31	I	P		TOOH SB 2 1/16 TBG LD PKR
	16:00 - 18:00	2.00	WO/REP	31	I	P		TIH RETRIEVING HEAD TAG SAND ON RBP
	18:00 - 18:45	0.75	WO/REP	31	H	P		CIRCULATED SAND OUT ON RBP @ 7360' GETTING SOME SHALE ON RETURNS AND GAS KICKS.
	18:45 - 19:00	0.25	WO/REP	31	D	P		RELEASED RBP @ 7360'
	19:00 - 20:00	1.00	WO/REP	31	I	P		TBG FLOWED AFTER RELEASING RBP LE TIT FLOW THEN TOOH SB 20 STDS OF TBG SWI SDFN
	20:00 - 21:00	1.00	WO/REP	30	G	P		CT TO THE YARD
5/5/2017	6:00 - 6:45	0.75	WO/REP	30	G	P		CT TO LOCATION
	6:45 - 7:00	0.25	WO/REP	48	B	P		JSA SAFETY MEETING (SEE SAFETY TAB)
	7:00 - 7:00	0.00	WO/REP	52	I	P		SURFACE PRESSURE:0 PSI IT WOULD SPIT OUT WATER ONCE ON A WHILE WHEN PRESSURE TESTING CSG
	7:00 - 7:00	0.00	WO/REP	52	I	P		SURFACE PRESSURE:0 PSI KEPT IT OPEN DURING DAILY OPS
	7:00 - 9:00	2.00	WO/REP	31	D	P		FINISH TOOH SB 2 1/16 TBG LD RBP & RET HEAD
	9:00 - 11:00	2.00	WO/REP	31	I	P		PU TIH RMOR 3.5" PKR
	11:00 - 15:30	4.50	WO/REP	31	O	P		PKR SETTINGS HUNTING CSG HOLE FOUND CSG HOLE BETWEEN 6132' & 6160'(AFTER FURTHER INVESTIGATION, FOUND THAT PKR WAS LEAKING AND HAD A BAD PSI GAUGE AT SURFACE - NO HOLE IN CSG)
	15:30 - 17:00	1.50	WO/REP	31	I	P		TOOH SB 2 1/16 TBG LD PKR
	17:00 - 17:45	0.75	WO/REP	46	F	Z		WAITED ON WIRELINE
	17:45 - 18:00	0.25	WO/REP	48	B	P		PIONEER WL JSA SAFETY MEETING (SEE SAFETY TAB)
	18:00 - 19:00	1.00	WO/REP	34	I	P		RU PIONEER WL RIH SET 3.5" CIBP @ 7200' (PER SAMANTHA TRAN)
	19:00 - 20:00	1.00	WO/REP	34	D	P		WL RIH DUMP CMT BAILER ON CIBP @ 7200' POOH LD CMT BAILER RDWL SWI SDFN.
	20:00 - 21:00	1.00	WO/REP	30	G	P		CT TO THE YARD
5/8/2017	6:00 - 6:45	0.75	WO/REP	30	G	P		CT TO LOCATION
	6:45 - 7:00	0.25	WO/REP	48	B	P		JSA SAFETY MEETING (SEESAFETY TAB)
	7:00 - 7:00	0.00	WO/REP	52	I	P		SURFACE PRESSURE: 0 PSI KEPT IT OPEN DURING DAILY OPS
	7:00 - 7:30	0.50	WO/REP	31	O	P		CP:0 PSI LOADED 3.5" CSG
	7:30 - 8:00	0.50	WO/REP	52	G	P		PRESSURE TESTED 3.5" CSG & CIBP @ 7200' WITH RIG PUMP TO 500 PSI FOR 15 MINUTES, THEN PRESSURE TEST TO 1000 PSI FOR 15 MINUTES GOOD TEST BOTH. BLEED OFF PRESSURE NOTIFIED SAMANTHA TRAN & JOSH GUSTAFSON ABOUT IT CSG TEST
	8:00 - 8:30	0.50	WO/REP	31	1	P		RD WORK FLOOR & TBG EQUIPMENT
	8:30 - 9:00	0.50	WO/REP	30	J	P		ND BOP & 3KWH
	9:00 - 10:00	1.00	WO/REP	30		P		PICK UP RMOR 3.5" CSG SPEAR UNLANDED 3.5" CSG @ 65K OUT OF THE SLIPS

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Project: COLORADO-WELD-NAD83-UTM13

Site: KUGEL V 18-4

Rig name no.: TEC 23/23

Event: CONST- CAP WELL WORK

Start date: 5/2/2017

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UWI: NW/NW/0/2/N/67/W/18/0/0/6/PRIME/N/600.00/W/0/516.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
	10:00 - 10:30	0.50	WO/REP	30	F	P		NU DUAL ENTRY FLANGES & 5KBOP WITH 1.66" PIPE RAMS
	10:30 - 11:00	0.50	WO/REP	31	I	P		RU WORK FLOOR & 1.66" TBG TOOLS
	11:00 - 11:45	0.75	WO/REP	31	I	P		TIH 26 JTS 1.66" TBG IN ANNULAR TO 850'
	11:45 - 13:00	1.25	WO/REP	31	H	P		CIRCULATED WELL GETTING JUST MUDDY WATER & VERY LITTLE GAS ON RETURNS. 1.5 BPM @ 650 PSI
	13:00 - 13:15	0.25	WO/REP	31	I	P		TIH 10 MORE JTS 1.66" TBG TO TOTAL DEPTH OF 1080' WITH 34 JTS
	13:15 - 15:00	1.75	WO/REP	31	H	P		CIRCULATED WELL PUMPING DOWN 1.66" TBG UP SURFACE CSG @ 1.5 BPM @ 650 PSI
	15:00 - 15:30	0.50	WO/REP	31	I	P		TOOH 10 JTS 1.66" TBG TO 850' SWI SDFN
	15:30 - 16:30	1.00	WO/REP	31	I	P		CT TO THE YARD
5/9/2017	6:00 - 6:45	0.75	WO/REP	30	G	P		CT TO LOCATION
	6:45 - 7:00	0.25	WO/REP	48	B	P		JSA SAFETY MEETING (SEE SAFETY TAB)
	7:00 - 7:30	0.50	WO/REP	31	I	P		TIH 10 JTS 1.66" TBG TO 1080'
	7:30 - 8:45	1.25	WO/REP	31	H	P		CIRCULATED PRIOR TO PUMP CMT 1.5 BPM @ 650 PSI GETTING MUDDY WATER ON RETURNS NO GAS HELD SLB JSA SAFETY MEETING
	8:45 - 9:00	0.25	WO/REP	48	B	P		
	9:00 - 10:00	1.00	WO/REP	51	B	P		RU SLB PRESSURE TESTED LINES TO 2500 PSI PUMPED 5 BBL WATER, 10 BBL SMS, 5 BBL WATER AND 330 SX OF CMT 15.8 PPG, 1.16 CF/SK=68 BBL OF CMT DISPLACED 1.5 BBL OF WATER RD SLB
	10:00 - 10:30	0.50	WO/REP	31	I	P		TOOH LD 1.66" TBG TO 250'
	10:30 - 11:00	0.50	WO/REP	31	H	P		CIRCULATED WELL CLEAN @ 250'
	11:00 - 11:30	0.50	WO/REP	31	I	P		TOOH LD REST OF 1.66" TBG CLEANED OUT TBG TOOLS
	11:30 - 12:00	0.50	WO/REP	31	I	P		RD TBG EQUIPMENT & WORK FLOOR
	12:00 - 13:00	1.00	WO/REP	30	J	P		ND 3K BOP & DUAL ENTRY FLANGES RE-LAND 3.5" CSG @ 55K ON SLIPS
	13:00 - 14:00	1.00	WO/REP	30	F	P		NU NEW 5K SEABOARD WH NU 5KBOP RU WORK FLOOR & TBG EQUIPMENT SWI SDFN
	14:00 - 15:00	1.00	WO/REP	30	G	P		CT TO THE YARD
5/10/2017	6:00 - 6:45	0.75	WO/REP	30	G	P		CT TO LOCATION
	6:45 - 7:00	0.25	WO/REP	48	B	P		JSA SAFETY MEETING WITH RIG CREW & RELIANCE WL CREW (SEE SAFETY TAB)
	7:00 - 8:30	1.50	WO/REP	46	E	Z		RU RELIANCE WIRELINE, THEY HAD SOME PROBLEMS WITH LOGGING TOOLS AND HAD TO WORK ON TOOL FOR 1.5 HRS
	8:30 - 11:00	2.50	WO/REP	34	N	P		WL RIH LOGGED WELL FROM 7195' TO SURFACE RDWL
	11:00 - 13:00	2.00	WO/REP	31	I	P		TIH 2 3/4 ROCK BIT & 222 JTS 2 1/16 TBG TAG CIBP @ 7200'
	13:00 - 13:30	0.50	WO/REP	31	I	P		RU POWER SWIVEL & ESTABLISHED CIRCULATION 1.5 BPM @ 650 PSI
	13:30 - 16:00	2.50	WO/REP	44	C	P		DRILLED OUT CMT & CIBP @ 7200'
	16:00 - 16:30	0.50	WO/REP	30	I	P		KEPT RUNNING TBG IN HOLE TAG FILL @ 7464' W/229 JTS 2 1/16 TBG

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Event: CONST- CAP WELL WORK		Start date: 5/2/2017	End date:
Active datum: RKB @4,918.00usft (above Mean Sea Level)		UWI: NW/NW/0/2/N/67/W/18/0/0/6/PRIME/N/600.00/W/0/516.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
	16:30 - 18:00	1.50	WO/REP	44	D	P		RU SWIVEL MILLED OUT TRYING TO CLEAN FILL TO PB GETTING BIG CHUNKS OF RUBBER ON RETURNS TOTAL DEPTH DRILLED WAS 7465' SET THERE FOR 1 HR NOT MAKING ANYMORE HOLE
	18:00 - 18:30	0.50	WO/REP	31	H	P		CIRCULATED WELL CLEAN RD SWIVEL LD 3 JTS SWI SDFN
	18:30 - 19:30	1.00	WO/REP	30	G	P		CT TO THE YARD
5/11/2017	6:00 - 6:45	0.75	WO/REP	30	G	P		CT TO LOCATION
	6:45 - 7:00	0.25	WO/REP	48	B	P		JSA SAFETY MEETING (SEE SAFETY TAB)
	7:00 - 7:00	0.00	WO/REP	52	I	P		SURFACE PRESSURE:0 PSI KEPT IT OPEN DURING DAILY OPS
	7:00 - 8:45	1.75	WO/REP	31	I	P		TOOH SB 2 1/16 TBG LD ROCK BIT
	8:45 - 10:30	1.75	WO/REP	31	I	P		PU AND TIH RMOR 2.90" OD, 2.41 ID X 7.37' LONG BURN SHOE & 229 JTS 2 1/16 TBG TAG LEFT OVERS OF CIBP @ 7465'
	10:30 - 11:00	0.50	WO/REP	31	I	P		RU POWER SWIVEL ESTABLISHED CIRCULATION PUMPING CONVENTIONAL 1 1/4 BPM @ 550 PSI
	11:00 - 15:00	4.00	WO/REP	44	D	P		STARTED MILLING ON CIBP LEFT OVERS @ 7465' CLEANED OUT TO 7606' GETTING METAL SHAVINGS & RUBBER ON RETURNS
	15:00 - 16:00	1.00	WO/REP	31	H	P		REVERSED CIRCULATION TO CLEAN WELL @ 7606' 1.1 BPM @ 650 PSI
	16:00 - 18:00	2.00	WO/REP	31	I	P		RD SWIVEL TOOH SB 2 1/16 TBG LD SHOE SWI SDFN
	18:00 - 19:00	1.00	WO/REP	30	G	P		CT TO THE YARD
5/12/2017	6:00 - 6:45	0.75	WO/REP	30	G	P		CT TO LOCATION
	6:45 - 7:00	0.25	WO/REP	48	B	P		JSA SAFETY MEETING (SEE SAFETY TAB)
	7:00 - 9:30	2.50	WO/REP	31	I	P		RU HOLE SEEKERS TESTER TIH SN-NC, 9 JTS 2 1/16, 3.5" AS-PKR, 2 1/16 XN NIPPLE & 40 JTS ATARTED RUNNING INTO A LOT OF CRIMPTED TBG TESTER BAR GETTING STUCKED, RD TESTER(NOTIFIED RIGO CINTORA & JOSH GUSTAFSON)
	9:30 - 10:30	1.00	WO/REP	31	I	P		TOOH SB GOOD TBG LD PKR
	10:30 - 12:00	1.50	WO/REP	31	I	P		TIH ALL 2 /16 TBG THAT HAD NOT BEEN TESTED
	12:00 - 15:00	3.00	WO/REP	31	I	P		TOOH LD 2 1/16 TBG GOT A TOTAL OF 110 BAD JTS & 157 GOOD JTS. SWI SDFN
	15:00 - 16:30	1.50	WO/REP	46	F	Z		WAITED FOR A&W TBG TRAILER & SPOT IT IN SDFN
	16:30 - 17:30	1.00	WO/REP	30	G	P		CT TO THE TARD
5/15/2017	6:00 - 6:45	0.75	WO/REP	30	G	P		CT TO LOCATION
	6:45 - 7:00	0.25	WO/REP	48	B	P		JSA SAFETY MEETING(SEE SAFETY TAB)
	7:00 - 7:30	0.50	WO/REP	31	I	P		RU TBG EQUIPMENT & RU HOLE SEEKERS TESTER TRUCK
	7:00 - 7:00	0.00	WO/REP	52	I	P		SURFACE PRESSURE:0 PSI KEPT IT OPEN DURING DAILY OPS
	7:30 - 11:30	4.00	WO/REP	31	I	P		PU & TIH SN-NC 9 JTS 2 1/16 TBG 3.5" AS-PKR & 219 JTS 2 1/16 TBG TO SURFACE RD TESTER(PICKED UP & TALLY IN 179 JTS FROM TBG TRAILER)
	11:30 - 12:15	0.75	WO/REP	30	J	P		RD WORK FLOOR & TBG EQUIPMENT, ND BOP
	12:15 - 12:45	0.50	WO/REP	31	H	P		LOADED CSG WITH 35 BBLs OF PKR FLUID

US ROCKIES REGION
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Event: CONST- CAP WELL WORK		Start date: 5/2/2017	End date:
Active datum: RKB @4,918.00usft (above Mean Sea Level)		UWI: NW/NW/0/2/N/67/W/18/0/0/6/PRIME/N/600.00/W/0/516.00/0/0	

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	12:45 - 15:15	2.50	WO/REP	31	O	P		TRIED TO SET PKR @ 7141' PKR WOULD NOT SET, (CALLED ALEX CARAVAGGIO HE SUGGESTED TO PUH TO 7109' PKR DID NOT SET PUH TO 7077' PKR DID NOT SET NOTIFIED ALLEX C. HE DECIDED TO TOOH WITH PKR.
	15:15 - 16:00	0.75	WO/REP	30	F	P		NU 5KBOP RU WORK FLOOR & TBG EQUIPMENT
	16:00 - 18:00	2.00	WO/REP	31	I	P		TOOH SB 2 1/16 TBG LD 3.5" PKR SWI SDFN
	18:00 - 19:00	1.00	WO/REP	30	G	P		CT TO THE YARD
5/16/2017	7:00 - 8:00	1.00	WO/REP	30	G	P		CT TO LOCATION
	8:00 - 8:15	0.25	WO/REP	48	B	P		JSA SAFETY MEETING (SEE SAFETY TAB)
	8:15 - 11:00	2.75	WO/REP	31	I	P		TIH SN-NC 9 JTS 2 1/16 TBG, 3.5" AS-PKR, 2 1/16 XN NIPPLE AND 217 JTS 2 1/16 TBG TO SURFACE
	11:00 - 11:30	0.50	WO/REP	31	1	P		RD TBG EQUIPMENT & WORK FLOOR
	11:30 - 12:00	0.50	WO/REP	30	J	P		ND5K BOP
	12:00 - 13:00	1.00	WO/REP	31	O	P		STARTED SETTING PKR @ 7141' PKR WOULD NOT SET PUH TO 7093' PUMPED SOME FLUID DOWN CSG GOT PKR SET @ 7093' EOT @ 7396'
	13:00 - 14:00	1.00	WO/REP	52	G	P		HOLE SEEKERS TORQUE & PRESSURE TESTED WH TO 5000 PSI FOR 15 MINUTES GOOD TEST
	14:00 - 16:30	2.50	WO/REP	35	1	P		RU SUMMIT SLICKLINE RUN 1.65" TBG BROACH INSIDE 2 1/16 TBG TO XN NIPPLE HITTING A FEW TIGHT SPOTS WORKED THEM OUT TO MAKE IT TO XN NIPPLE (NOTIFIED JOSH GUSTAFSON ABOUT TIGHT SPOTS ON TBG) RD SUMMIT SL SWI SDFN
	16:30 - 17:30	1.00	WO/REP	30	G	P		CT TO THE YARD
5/17/2017	9:00 - 9:45	0.75	WO/REP	30	G	P		CT TO LOCATION
	9:45 - 10:00	0.25	WO/REP	48	B	P		JSA SAFETY MEETING (SEE SAFETY TAB)
	10:00 - 12:00	2.00	WO/REP	30	C	P		RACKED PUMP & TANK LINES CLEANED LOCATION RDMO TEC #23
	12:00 - 13:30	1.50	WO/REP	30	C	P		ROAD RIG TO TEC YARD