

7/01/77	241	WOC. 500# 20-40 sd, 130,000 gal 22 KCl, "click" wtr w/2-1/1000 gal friction reducer & 30#/1000 gal fld loss additive as follows: 2500 gal pld @ 3000# @ 2000#, 20,000 gal w/1-1/2 20-40 sd/gal 50 BPM 2200#, 25,000 gal w/1-1/2 20-40 sd/gal 52 BPM 2200#, 25,000 gal w/1-1/2 20-40 sd/gal 52 BPM 2150#, 30,000 gal w/2-1/2 20-40 sd/gal 53 BPM 2100#. Cleared blender & flush w/6174 gal, lost 1 pld during flush, rate dropped to 32 BPM & 1850#. 110 1050#, 15 min 650#. At 11:40 a.m. SI till 4:30 p.m. RU SD Inter'nl. 5/2 pump survey. Well on vac. 60' and mechanical problem at temp tool. Logged 5095-4090' (5095' top sd). Survey indicated some temp change 1/4540-78', 4981-5060', 5094-32', 5036-60' & 5095-50'. Total load 3,218 lbs.	\$13,688
7/02/77	73	Drilg. 3/4" @ 921', 1" @ 1234', 1-1/2" @ 1350', 2" @ 1400'. 50 RPM, 35M#. Made: 8.8, 28 sec, wtr & Bone. 8.2, Smith, 1011, 211 1000', 1160' in 14 hrs. B#3, Sec., S84F, in @ 1405' & drilg. 315' @ 11-30 hrs.	\$23,688
7/03/77	1840	Drilg. 1" @ 2010' & 2-1/2" 50 RPM, 35M#. Made: 9.0, vis 30, WL 5, Ph 7.2. B#5, Smith, F-2, in @ 3609' & drilg. 1155' in 31-3/4 hrs.	\$29,869
7/04/77	2560	Drilg. 3/4" @ 2603' & 1" @ 3090'. 50 RPM, 30M#. Made: B#2, 28 sec, Ph 7.5, B#3, Sec., S84F, in @ 1405' & drilg. 1860' in 2-1/4 hrs.	\$36,431
7/05/77	3270	Working on torque converter. 50 RPM, 30M#. Made: 9.0, vis 32, WL 9.6, Ph 7.5. B#3, Sec., S84F, 1405-3336', 1931' in 50-1/2 hrs. B#4, Smith, 26TH, in @ 3336', 14' in 1 hrs.	\$39,008
7/07/77	3655	Drilg sd & sh. 3/4" @ 3385', 3/4" @ 3609'. 50 RPM, 35M#. Made: 9.0, vis 32, WL 9.2, Ph 7.2. B#4, Smith, DCH, 3336-3609', 273' in 14-3/4 hrs. B#5, Smith, F-2, in @ 3609' & drilg. 46' in 2-1/4 hrs.	\$41,679
7/08/77	4055	Drilg sd & sh. 45 RPM, 35M#. Made: 9.0, vis 30, WL 5, Ph 7.2. B#5, Smith, F-2, in @ 3609' & drilg. 448' in 25-3/4 hrs.	\$46,281
7/09/77	4345	Drilg sd & sh. 45 RPM, 35M#. Made: 9.1, vis 40, WL 8.0, in 7.2. B#5, Smith, F-2, in @ 3609' & drilg. 736' in 48-1/2 hrs.	\$52,522
7/10/77	4645	Drilg sd & sh. 3/4" @ 4075', 3/4" @ 4389'. 45 RPM, 35M#. Made: 9.2, vis 42, WL 8.6, Ph 8.0, L#5, Smith, F-2, in @ 3609' & drilg. 1360' in 73-1/2 hrs.	\$56,185
7/11/77	4905	Drilg sd & sh. 3/4" @ 4668'. 45 RPM, 35M#. Made: 9.2, vis 48, WL 8, Ph 7.0. L#5, Smith, F-2, in @ 3609' & drilg. 1290' in 97 hrs.	\$59,244
7/12/77	5155	Drilg sd & sh. 45 RPM, 35M#. Made: 9.1, vis 40, WL 8.6, in 2/32, Ph 7.5. L#5, Smith, F-2, in @ 3609', 1540' in 12-3/4 hrs.	\$61,542
7/13/77	5245	Logging, sd & sh. 1/4" @ 5245'. 45 RPM, 35M#. Made: 9.2, vis 55, WL 6.0, Ph 7.5. B#5, Smith, F-2, 3609-5245', 1636' in 128-1/4 hrs.	\$66,771
7/14/77	5245	WOC. Dresser Atlas ram comp & comp neutron + dual ir4. laterolog. Cond hole. Ran 126 jts 5-1/2" ID 10.5# K-55 LTC 8x8 B-8 NCSG (5230') set @ 5243'RB. 8 cent, 300' rotating scratchers, Bkr & diff fill up collar, Bkr Mod "J" stage collar @ 3528'KB. Howco cmt 1st Stage w/100 sx 50/50 Poz w/12-1/2# Gilsonite/sx fol w/50 sx Cl "B" neat. Rotated while cmt. PD 1:10 am 7/14. Opn DV. Circ 4 hrs. Cmt 2nd stage w/265 sx Howco lt w/100 Gilsonite/sx, fol w/50 sx Cl "B" neat. PD 6:15 am. Set 20 dips w/75Me tension. 0.05 of csg. Rig rel 8:00 am 7/14/77.	\$108,94
7/15/77	5215	WO completion	
7/16-9/6	5215	WO completion	
9/7/77	5215	TH - Prep nipple up BOP, PU 4-3/4" bit & log scraper. RI Farrington Mo. Seal. Bk cut walk & pipe racks, hooked up prep & bit.	\$1,27
9/8/77	5206	PB - Rep'g rotating head, prep to drill DV. Unloaded & tally 2-7/8" work string 179 jts, inst OCT C-16 csg head, 100' x 6" 900 series w/2-2" OCT SE valve Mod 47, 3000#WP. Ran 124 jts 2-7/8" EUE tbg, 4-3/4 HIC bit, Bkr 12-A csg scraper. Drld 4' cmt on top of DV tool, drld 6' of DV. Tbl w/rotating head. Removed for repairs. SDON.	\$119,926
9/9/77	5206	PB - Drilg on DV & Plugs. Tbl w/rotating head. Ring packing leaking badly. Drld on DV 6 hrs. Removed Kelley, removed rotating head & took to town firetrns. SDON.	\$121,876
9/10/77	5197	PB Prep to run cased hole logs. Drld DV @ 3866', fell thru @ 11:00 a.m., circ 20 min, LD kelly remove rot'g head, ran 4-3/4 bit, scraper on 2-7/8" tbg to 5197' displ hole w/22 KCl. Tst BOP to 1490#, held OK. LD 10 jts tbg, stood 58 jts in derrick. SDON.	\$123,095
9/11/77	5197	PB - SD a/c Sunday. Ran cmt bond w/var dens & GR collar correl logs. Indicated top 1st stage @ 4350', gd bond to TD. Stage collar @ 3651' on log. Top 2nd stage indicated @ 2400'. Gd bond 3560-3630'. Att to shoot 3 guns in tandem, selective fire, guns would not fire. Broke dn guns, ran 1 selective fire gun w/10 shots at a time. (Go Int'l). Perf Masaverde 5146', 5134', 5129', 5124', 5119', 5114', 5104', 5099', 5079', 5074', 5069', 5064', 5059', 5054', 5049', 1 jet shot cal, 15 shots. Lost elec power to shooting panel. Unable to find tbl. SI & SD f/ weekend.	\$124,321
9/12/77	5197	PB - SD a/c Sunday. Cont to perf.	\$124,321
9/13/77	5197	PB - Cont to swb. 60 Int'l perf'd 5044', 5039', 5034', 5015', 4997', 4980', 4977', 4928' & 4924', total perf'd 24 holes. Spot 5 bbl 15% KCl. Ran 2-7/8" tbg w/5-1/2" retrievematic pkr, set pkr @ 4820'. Acid HV perfs w/1500 gal 15% HCl. Drop 30 ball sealers. Min pr 1400, Max pr 2000#, Max rate 5 BPM, gd ball action. Rel pkr & lowered thru perfs to knock off balls. Reset pkr @ 4580'. Made 2 swb runs, rec'd 10 BLAW, no gas. Total load 191, to rec 91 BL.	\$131,655
9/14/77	5197	Prep to frac. Swb 15-1/2 B&F HV perfs 4924-5145'OA, swb dry. Cont'd ring swb ea 30 min, rec'd 8-10 gal wtr/run w/tr of gas. Rel pkr. Pld tbg & pkr. Closed BOP & SDON.	\$132,654
9/15/77	5197	PB - Prep to CO sd. RU Dowell. Sd wtr frac HV 4924-5145'OA dn 5-1/2" csg w/ 132,500# 20-40 sd, 130,000 gal 22 KCl, "click" wtr w/2-1/1000 gal friction reducer & 30#/1000 gal fld loss additive as follows: 2500 gal pld @ 3000# @ 2000#, 20,000 gal w/1-1/2 20-40 sd/gal 50 BPM 2200#, 25,000 gal w/1-1/2 20-40 sd/gal 52 BPM 2200#, 25,000 gal w/1-1/2 20-40 sd/gal 52 BPM 2150#, 30,000 gal w/2-1/2 20-40 sd/gal 53 BPM 2100#. Cleared blender & flush w/6174 gal, lost 1 pld during flush, rate dropped to 32 BPM & 1850#. 110 1050#, 15 min 650#. At 11:40 a.m. SI till 4:30 p.m. RU SD Inter'nl. 5/2 pump survey. Well on vac. 60' and mechanical problem at temp tool. Logged 5095-4090' (5095' top sd). Survey indicated some temp change 1/4540-78', 4981-5060', 5094-32', 5036-60' & 5095-50'. Total load 3,218 lbs.	\$133,003
9/16/77	5197	PB - Cont to swb. Ran Bkr Hydrostatic sd pmp on 2-7/8" tbg. CO sd 5035-5197'. Pld tbg & sd pmp. Fld 13 jts tbg full of sd. Ran Bkr 5-1/2" retrievematic pkr on 2-7/8" tbg, set pkr @ 4820'. Bk swb, 200' in, rec'd 45 gal, sd and gas cut wtr, lost 2 runs, FL @ start 1350', at end 1450'. SDON. +3173 BL.	\$155,196
9/17/77	5197	PB - Cont to swb. A.M. 9/16, 11:00 AM. Cont swb, FL 5050'. Swbd 60 BLW & had smd gas kick, kicked swb line. Cut off 35' line. Then side 3 swb runs to 5090' FL steady @ 1850'. BL. Rec'd total 72 sd, +3101 BL.	\$166,644
9/18/77	5197	PB - SD a/c Sunday. Ran 9/17 5197 B&F. Removed csg. Swbd 9 hrs, rec'd 141 BLW, had gas cut FL @ 1400'. Sd 1/4540', in 11 min, w/ and rec'd 10 gal blow between runs. Then increased to 3 bbls, 1-1/2 min, 2500' @ 1-1/2 min.	\$177,500