

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

(See other in-
structions on
reverse side)

FOR APPROVED
OMB NO. 1004-0137
Expires: December 31, 1991

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> DRY <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. SF-078766	
b. TYPE OF COMPLETION: NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP-EN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> OTHER <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR Amoco Production Company		7. UNIT AGREEMENT NAME	
3. ADDRESS AND TELEPHONE NO. P.O. Box 800, Denver, Colorado 80201		8. FARM OR LEASE NAME, WELL NO. ROSA UNIT 100E	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 1570' FSL 870' FEL UNIT I SEC 21 At top prod. interval reported below At total depth		9. API WELL NO. 3003925135	
14. PERMIT NO.		12. COUNTY OR PARISH RIO ARriba	
DATE ISSUED		13. STATE NEW MEXICO	
15. DATE SPUDDED 11/05/91		10. FIELD AND POOL, OR WILDCAT BASIN DAKOTA GAS	
16. DATE T.D. REACHED 11/29/91		11. SEC., T., R., M., OR BLOCK, AND SURVEY OR AREA Section 21 Township 31N Range 6W	
17. DATE COMPL. (Ready to prod.) 11-28-92		18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 6282' GL	
19. ELEV. CASINGHEAD		20. TOTAL DEPTH, MD & TVD 8028'	
21. PLUG, BACK T.D., MD & TVD 7970'		22. IF MULTIPLE COMPL., HOW MANY* 1	
23. INTERVALS DRILLED BY YES		24. PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)* 7912-7938 DAKOTA See Attached	
25. WAS DIRECTIONAL SURVEY MADE Y		26. TYPE ELECTRIC AND OTHER LOGS RUN DIL, CAL, NGT, GR, FDC, CNL, MICROLOG, ARRAY SONIC	
27. WAS WELL CORED N		28. CASING RECORD (Report all strings set in well)	
CASING SIZE/GRADE		WEIGHT, LB./FT.	
DEPTH SET (MD)		HOLE SIZE	
TOP OF CEMENT, CEMENTING RECORD		AMOUNT PULLED	
SEE		ATTACHED	
36#		1740'	
23#		455'	
1.6		116-7912	
29. LINER RECORD		30. TUBING RECORD	
SIZE		TOP (MD)	
BOTTOM (MD)		SACKS CEMENT*	
SCREEN (MD)		SIZE	
DEPTH SET (MD)		PACKER SET (MD)	
SEE		ATTACHED	
23/5		1060	
31. PERFORATION RECORD (Report all strings set in well)		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
SEE ATTACHED		DEPTH INTERVAL (MD)	
JAN 21 1994		AMOUNT AND KIND OF MATERIAL USED	
OIL CON. DIV		SEE ATTACHED	
DIST. 3		33.* PRODUCTION	
DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping - size and type of pump)	
WELL STATUS (Producing or shut-in)		SHUT IN	
DATE OF TEST		HOURS TESTED	
CHOKE SIZE		PROD'N FOR TEST PERIOD	
OIL - BBL		GAS - MCF.	
WATER - BBL		GAS-OIL RATIO	
FLOW TUBING PRESS		CASING PRESSURE	
CALCULATED 24-HOUR RATE		OIL - BBL	
GAS - MCF.		WATER - BBL	
OIL GRAVITY - API (CORR.)		34. DISPOSITION OF GAS (Solid, used for fuel, vented, etc.)	
TEST WITNESSED BY		35. LIST OF ATTACHMENTS	

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records
SIGNED Wayne Branam TITLE Business Associate DATE 01-05-1994

*(See Instructions and Spaces for Additional Data on Reverse Side)

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof, core intervals, and all drill stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
OJO Alamo	2310		Water
Kirkland	2420		Shale
Fruittland	2937		Coal
Picture-Cliffs	3157		Sand
Lewis	3600		Shale
Cliff House	5234		Sand
Menefee	5323		Sand
Pnt. Lookout	5567		Sand
Mancos	6040		Shale
Greenhorn	7606		Shale
Graneros	7656		Shale
Dakota	7785		Sand

38.

GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH

RECEIVED
JAN 21 1934
OIL CON. DIV.
DIST. 3

RECEIVED
JAN 1 1934
OIL CON. DIV.
DIST. 3

CASING RECORD

CSG DESCRIPT AT	HOLE SIZE	CMT RECORD
9 5/8" K55 36# 440'	12.25"	285SX CL B CMT + 2% CACL @ 15.6 PPG
7" K55 23# 4190' 95'	8.75"	STAGE ONE 230SX 65/35 W/ ADDITIVES LEAD AND 200SX W/ ADDITIVES TAIL STAGE TWO 470 SX 65/35 W/ ADDITIVES LEAD AND 60SX G W/ ADDITIVES TAIL
4 1/2" N80 11.6# 8000'	6.25"	550 SX 50/50 POZ AND ADDITIVES LEAD AND 120SX G AND ADDITIVES TAIL

PERFS

7912'-7938' W/6 JSPF .31" DIA 151 SHOTS

LOAD TUBING W/ 27.5 BBLS AND BREAK DOWN PERFS W/ .7 BBLS MAX TP PRESSURE 2290 PSI. ISIP 2100 PSI. 5 MIN, 30 PSI.

SET RBP @ 7890'

7932'-7846' W/6 JSPF .31" DIA. 84 SHOTS

7872'-7878' W/4 JSPF .31" DIA 24 SHOTS

7852'-7856' W/4 JSPF .31" DIA. 16 SHOTS

7788'-7800' W/4JSPF .31" DIA. 48 SHOTS

FRAC

SET RBP @ 7898'

PAD W/ 1,200 BBLS PUR-GEL 3. PUMP 18,800# 100 MESH, 270,000# 20/40 SAND W/ 1,467 BBLS PUR-GEL 3. FLUSH W/ 112 BBLS WATER. AIR 25 BPM, MAX IR 41 BPM AIP 2600 PSI, MAX IP 3515 PSI.

TEST

DATE	HRS	FTP	FCP	CHK	BBLS OF WATER
101592	21	50-70	900	22/64	230
101692	24	60	900	22/64	157
101792	24	60	1000	22/64	127
101892	24	70	850	22/64	189
101992	24	70	850	22/64	87
102092	24	50-70	900	22/64	310
102192	24	50-70	900	24/64	396

NO OIL OR GAS FOR THE TESTS.

THE COMPLETION REPORT FOR THIS WELL WAS NOT SUBMITTED AT THE TIME OF COMPLETION. WE APOLOGIZE FOR THE DELAY.

THIS WELL WAS TURNED OVER TO WILLIAMS TO OPERATE AFTER TESTING (SEE PREVIOUS SUNDRY DATED 092893). WELL WAS SHUT IN AND OPERATORSHIP TURNED OVER TO WILLIAMS.

110591 MIRU DRILL RAT AND MOUSE HOLE, SPUD SURFACE HOLE AT 1115 HRS ON 110591, DRL TO 260'. 110691 DRL TO 448', CIRC HOLE CLEAN, POOH, L/D DC, RAN 9 JTS OF 9 5/8" CSG LANDED AT 440', PUMPED 285 SX OF CL B CMT + 2% CACL @ 15.6 PPG YIELD 1.18 BUMPED PLUG @ 00:45 W/ 600PSI, GOT 3 BBLs CMT TO SURF, WOC, WELD ON HEAD, NUBOP, TST BOP 2000 HIGH 250 LOW.

110791 FINISH BOP TEST 2000 HIGH 250 LOW, TEST CSG TO 800PSI, PU BHA TIH DRL FLOAT COLLAR 45' OF CMT SHOE AND 10' OF NEW FORM, RAN LEAK OFF TEST 45 PSI, DRL TO 1,385'.

110891 DRL TO 2,221'.

110991 DRL TO 2,770'.

111091 DRL TO 3,390'.

111191 DRL TO 3,831'.

111291 DRL TO 4,185' POOH, RUN LOGS DIL, CAL, NGT, GR, FDC, CNL.

111391 FINISH LOG, LOG W/ MICROLOG AND ARRAY SONIC, TIH, CIRC, LD/DP, RAN 103 JTS OF 7" CSG LANDED AT 4,185', CIRC, PUMPED STAGE ONE 230SX OF 65/35 + 10% SALT + .25#/SX CELLO + .25 DISPERAMT LEAD CMT 200SX OF CL G + .5% D-59 + .4% D-65 + .2% D-136 + .25% D-79 DISPLACED W/ 161 BBLs, PLUG DID NOT BUMP FLOATS HELD OK.

111491 CIRC BETWEEN CMT STAGES, GOT DYE WATER TO SURF, DID NOT GET CMT FROM FIRST STAGE, CMT SECOND STAGE W/ 470 SX OF 65/35 CL B CMT + 105 SALT + 6% GEL + .25#/SX CELLO + .25 DISPERSANT TAIL CMT 60 SX OF CL G + 25 CACL + .25# /SX CELLO, DISPLACED SAME, GOT 71 BBLs CMT TO SURF, BUMPED PLUG W/ 2400 PSI, NDBOP, SET SLIPS NUBOP AND TEST TO 2000 HIGH AND 250 LOW ALL OK, TIH TO DV TOOL, DRL DV TOOL, TIH TO FLOAT COLLAR, CIRC B/U TESTED CSG TO 2000 PSI, DRL FLOAT EQUIP AND CMT.

111591 FINISH DRL FLOAT EQUIP, DRL 10' OF NEW FORM, CIRC AND TEST SHOE TO 100 PSI, BLOW ALL MUD FROM HOLE, POOH, P/U BHA, TIH W/ NEW BIT, DRL TO 4,280'.

111691 DRL TO 5,930'.

111791 DRL TO 7,412'.

111891 DRL TO 8,028', POOH 15 STDS PIPE STUCK @ 7,078' ATTEMPT TO WORK FREE.

111991 STILL ATTEMPTING TO WORK FREE.

112091 TRIP IN HOLE W/ FISHING JARS, BLOW HOLE DOWN W/ AIR, TRIED TO SCREW INTO FISH UNSUCCESSFULLY, LD FISHING JARS, LOAD HOLE W/ MUD, TIH TO SHOE @ 4,189', MIX MUD AND BUILD VOLUME, TIH FROM 4,189' AND CO TO 4,701', CIRC AND - COND HOLE FOR CMT PLUG.

112191 TOH W/ BIT, TIH W/ DEVERTER SUB TO 4,679', CIRC AND COND HOLE, PUMP 136SX CLASS G, .75% CFR-3 17.5#/GAL, .94 CU FT/SK, 3.35 GAL/SK, SPOT PLUG FROM 4,679' TO 4,079', TOH TO GET ABOVE CMT PLUG, LD DP, WOC.

112291 TIH W/ BIT TO DRESS OFF CMT PLUG, TAG CMT PLUG AT 4,310', DRESS OFF TO 4,355', TOH, PU 1 DEGREE BENT MOTOR AND SIDE TRACK BIT, TIH TO 4,355' AND DRL TO 4,440' W/ MUD MOTOR, CIRC AND RUN SURVEY.

112391 CIRC AND SURVEY @ 4,401', 2 DEGREES, TOH, TIH W/ PACKED BHA, REAM FROM 4,310' TO 4,440', UNLOAD HOLE AND CIRC.

112491 CIRC, DRL TO 5,260'.

112591 DRL TO 6,590'.

112691 DRL TO 7,815', TOH FOR BIT.

112791 CIRC, TOH TO SHOE, NU FOR MUD DRLG, PUMP MUD, PLUGGED BIT, TOH TO UNPLUG BIT, TIH W/ DC, BREAK CIRC, TRIP TO 3,598', UNABLE TO BREAK CIRC, PLUGGED BIT, TOH TO UNPLUG BIT, TIH.

112891 TRIP OUT TO UNPLUG BIT, TIH W/ DC, BREAK CIRC, TIH TO 7,602', BACK UP TO 7,030', CIRC AND COND HOLE, 100% CIRC, WASH AND REAM 7,030' TO 7,815', DRL TO 7,868'.

112991 DRL TO 8,000', TRIP 10 STDS, NO DRAG, 12' OF FILL, CIRC AND COND HOLE FOR LOGS, TOH.

113091 LOG 8,000' UP TO 4,190', RUN DIL/CAL/NGT/GR, FDC/CNL, ARRAY SONIC AND MICROLOG, TIH W/ DC, BREAK CIRC, CUT DRLG LINE, TIH TO 4,200', CIRC AND COND, TIH TO 8,000', NO FILL, CIRC AND COND, SHORT TRIP 10 STDS, NO FILL, NO DRAG. 120191 CIRC AND COND, TOH AND LD DP AND DC, RUN 100 JTS 4 1/2" CSG SET AT 8,000', CIRC AND COND, PUMP 550 SX 50/50 POZ, 2% GEL, 6% HALAD-9, .2% SCR-100, .375 3/SK FLOCELE LEAD AND 120 SX CLASS G, 35% SCR-400, .25#/SK FLOCELE FOR TAIL, PLUG DOWN, 100% CIRC, LD DP, NDBOP, RIG DOWN ROTARY RIG AND SUSPEND OPERATIONS

051492 MIRUSU, NUBOP. 051592 TIH W/ BIT AND SCRAPER TO 3846' TOL, NO CMT CIRC B/U GOT DRLG MUD AND LCM, CIRC, TIH AND SET 7" PKR AT 3,700'.

051592 TST 7" CSG TO 4,000 PSI AND TEST TOP OF LINER TO 4,000 PSI, PKR SET 150' ABOVE TOL, TIH W/TBG TAG CMT @ 7,800', START TO DRL CMT.

051792 DRL CMT TO 7,970, CIRC AND TOH, RAN CBL, TIH AND SET 4 1/2" PKR AT 3,886', TEST LINER TO 7,000 PSI, HELD, TOH.

051892 TIH OPEN ENDED ROLL HOLE W/2% KCL, TOH, PU POLISH MILL, TIH C/O PBR LD DC, INSTALL 4-1/2" CSG RAMS.

051992 RAN 103 JTS OF 4 1/2" FRAC STRING, SPACE OUT LANDED SAME, TEST BACKSIDE TO 2,500 PSI, HELD, RU TO RUN 2 3/8" TBG, BTM OF SEAL ASSY @ 3,856'.

052092 PERF TIH W/ GUN ASSY, WILL LOG ON DEPTH.

052192 LOG GUNS ON DEPTH, NDBOP, NUWH, DROP BAR X PERF DAKOTA 7,912'-7,938' W/6 JSPF, 5 MIN TPC 10 PSI, RIH W/ BHPBUB X SET ON TOP OF BAR @ 7,885' X SI SURF VAVLE 8 HRS, FINAL TPC 30 PSI, RIH X TBG PLUG X SET IN R NIPPLE @ 7,845', FL APX 7860. BLED PRS OFF, PLUG HOLDING, SI FOR 8 DAY BHPBU.

503092 END 8 DAY BHPBU TST, RU WL, RIH PULL TBG PLUG AND BHPBU BOMBS, TPC 12 PSI, OPEN WELL ON 1/2" CH AND BLED DOWN IN 1 HR, WELL DEAD, SI AND WO PRS BUILD UP.

061992 MIRUSU, TPC 4 PSI, RU AND LOAD TBG W/ 27.5 BBL AND BREAK DOWN PERFS 7,912'-7,938' W/ .7BBL AND MAX TP 2,290 PSI, ISIP 2,000 PSI, 2 MIN 172 PSI AND 5 MIN 30 PSI, NUBOP, REL PKR, POH, LD TCP GUNS, RUN BULL PLUG, ONE JT TBG, PRD VAVLE, PKR, TBG, R NIPPLE, ONE JT, F NIPPLE, TBG. TLA @ 7,880' AND PSA 7,846', TBG DRY EXCEPT BTM 2 JTS, PRS TST BS TO 600 PSI, OK, LEFT 600 PSI ON BS, RDMOSU, WELL SI FOR 7 DAYS.

062792 RU SLICK LINE, DROP TUBE TO OPEN PROD VALVE, TUBE STUCK IN R NIPPLE, DROP 3/4" BAR, OPEN PRD VAVLE, RIH W/GAUGES SA 7,826', POH WL, SI AT SURF FOR 18 HR FLW TST.

062892 18 HR FLW TST W/SURF VAVLE SHUT, 2 HR TP 4 PSI, 18 HR TP 14 PSI, CPC 300 PSI FOR 24 HR, RIH AND SET PLUG IN F NIPPLE @ 7,797', TPC 14 PSI, BLOW TBG PRS OFF TO 0 IN 5 MIN, PLUG HOLDING, SI AND RD SLICK LINE, WELL SI FOR 10 DAY BHPBU.

070892 RU SLICK LINE AND TRIED TO RECOVER TBG PLUG.

070992 PREP TO RECOVER PRS BOMBS, PLAN TO TIH W/WL BAILER AND CLEAN OFF TOP OF TBG PLUG, PULL PLUG AND RECOVER BOMBS.

071092 RU WL BAILER, TIH TAG FILL @ 7,793', TOH, RECOVERED SAND AND SMALL ROCKS, TIH W/PLUG PULLER, UNABLE TO LATCH ON, TOH, TIH W/BAILER, TOH, TIH 3 TIMES, RECOVERED SAND, TIH W/ PLUG PULLER, TOH W/ TBG PLUG, RU TOOL TO PULL PRS BOMBS, TIH, TOH W/PRS BOMBS. PRS BOMBS RECORDED PRS INFO.

071192 RU SWAB UT, IFL 1,000', FFL 7,400', START CSG PRS 240PSI, END CSG PRS 240 PSI, SWAB, RUNS RECOVERED 30 BBLs WATER, WELL WILL NOT FLOW, SIFN.
 071292 SWAB WELL, IFL 7,000', FFL 7,309', CSG START VACUUM, CSG END 0 PSI, RECOVERED .25 BBL WATER, WELL WILL NOT FLOW, SI AND RELEASE SWAB UT.
 071492 MIRUSU, PREP TO PULL TBG, PKR, PERF GUNS.
 071592 TOH W/TST STRING. 071692 TIH W/ GAUGE RING WL, TOH, TIH W/ RBP SET @ 7,890', TOH, TIH LAND AND SET PERF GUNS W/ GAMMA RAY LOG @ 7,832'-7,846, TSTED RBP TO 1,000 PSI, HELD FOR 10 MIN, TSTED BACKSIDE TO 500 PSI, HELD STILL ON BACKSIDE DROPPED TUBE, FFL @ 7,600', IFL 2,600'.
 071792 DROP BAR, PERF 7,832'-7,846 W/6 JSPF, TP 5 PSI, RUN BHPBU GAUGES ON WL, SET ON TOP OF BAR @ 7,820', SI @ SURF FOR 8 HRS, END PRS 60 PSI, RUN BLANKING PLUG AND SET IN NIPPLE @ 7,767', TAG FL @ 7,400', BLEED PRS OFF TBG, PLUG HELD, CSG PRS 500 PSI, SI FOR 8 DAY BHPBU RDMOSU.
 071892 SET BOMBS.
 072692 MIRUSU, TPC 0 PSI, CPC 200 PSI, RU WL AND FISH TBG PLUG AND BHPBU GAUGES, TPC 320 PSI 8 HRS AFTER PULLING TBG PLUG, OPEN WELL ON 1/4" CH AND FLW 1 HR, TPF 0 PSI, WELL DEAD SI.
 072792 TPC 380 PSI TAKE GAS SAMPLE, BLEED PRS OFF, NUBOP, REL PKR, POH W/PKR AND TC GUNS, RIH TO 7,600' AND BLOW CSG DRY W/N2 AND RTBG, LATCH ON RBP @ 7,890', REL, POH, SI.
 072892 PERF 7,872'-7,878', 7,852'-7,856', 7,788'-7,800' W/4 JSPF, R 3 3/4" BIT AND 3.790 STRING MILL TO BTM, CIRC, PU ABOVE PERFS, SI.
 072992 POH W/ STRING MILL AND BIT, RUWL, MADE TST RUN TO BTM W/RBP, POH, RDWL, LD TBG, RDMOSU. 090992 BLEED OFF ALL GAS, REMOVED WELLHEAD UPPER SECTION AND INSTALL 6" 5,000 PSI FRAC VAVLE.
 091092 INSTALL DUAL ELECTRONIC GAUGES IN TBG HUNG BELOW PLUG, SET RBP @ 7,898', RD WL.
 091192 RU FRAC EQUIP, INSTALL CSG ISOLATION TOOL, PR TST SURF LINES TO 7,500 PSI, FRAC PER PROCEDURE (SEE ATTACHED SUMMARY OF CSG RECORD, PERFS, FRAC AND TESTS FOR DETAILS), ALL FLUID TAGGED WITH R/A MATERIAL, PMP TOT OF 18,800 LBS 100 MESH, 270,000 LBS 20/40 SAND, RATE ON PAD 40BPM, RATE ON MAIN BODY AND FLUSH 25 BPM, ALL SAND IN FORMATION, ISDP OF 2,990 PSI, 15 MIN PR 2,507 PSI, PREPARE TO OPEN WELL AND FLOW OVERNIGHT HOLDING 100 PSI BACK PRESSURE.
 091292 FLOW WELL ON CLEAN UP AFTER FRAC, FCP 200 PSI, CHOKE 1/2", EST GAS RATE 1,200MCF, DAILY RECOVERY 388 BBLs, TO DATE 418 BBLs.
 091392 FLOW WELL UP 4 1/2" CSG FOR 24 HRS, CSG PRS 200 PSI, CHOKE 1/2", DAILY RECOVERY 360 BBLs, TO DATE 778 BBLs.
 091492 FLOW WELL UP 4 1/2" CSG, 1/2" CHOKE, FCP 100 PSI, DAILY RECOVERY 240 BBLs, TO DATE 1018 BBLs.
 091592 CONTINUE TO FLOW WELL ON CLEAN UP FOR 24 HRS THRU 1/2" CHOKE, FCP 100 PSI, DAILY RECOVERY 192 BBLs, TO DATE 1210 BBLs.
 091692 MIRUSU PMP 40 BBLs 2% KCL DWN CSG TO KILL WELL, REMOVE 6" FRAC VAVLE, INSTALL BOPS AND CHG RAMS TO 4 1/2", PR TST BOPS, OK, STAB INTO DONUT, LD FRAC STRING, NDBOPS AND REMOVE SPOOL, NUBOPS, PLUG RET HEAD AND TIH, RUN 150 JTS 2 3/8" TBG.
 091792 CONTINUE IN HOLE W/ RET HEAD, LATCH ONTO PLUG, PULL 10,000, SOMETHING SHEERED, TOH, RECOVER EQUALIZING NECK OF PLUG.
 091892 MAKE UP 1" SPEAR AND TIH, STING INTO PKR, PULL 5000#, SPEAR CAME LOOSE, ATTEMPT AGAIN, APPEARS PLUG CAME UP HOLE 2 1/2', TOH, RUN 1.049" GRAPPLE, STING INTO PLUG, SPEAR PULLS OUT, TOH, MAKE UP WASHOVER MILL- DC, JARS, BUMPERSUB, 2 3/8", RUN IN HOLE TO 3,750'.
 091992 CONTINUE IN HOLE W/ WASH OVER MILL, TAG PLUG, RIG UP SWIVEL, BREAK CIRC, MILL OFF 19", PLUG WENT DN 22', TOH.

092092 MAKE UP 2 1/2" GRAPPLE IN SHORT CATCH OVERSHOT AND TIH W/COLLARS, BUMPER SUB AND JARS, LATCH ONTO FISH, TOH, RECOVER PLUG AND GAUGES, LD COLLARS ETC, TIH, TAG FILL @ 7,937', PULL ON TO 7,600'.

092292 TAG FILL @ 7,936', CO TO 7,978', PULL TBG 300' ABOVE PERFS, RUN AFTER FRAC LOG, RUN TBG AND LAND @ 7,830', NDBOPS, NUWH, RU SWAB EQUIP, FLUID LEVEL @ SURF, SWAB 32 BBLs, CSG ON VACUUM.

092392 TBG AND CSG 0 PSI, SWAB, START FLUID LEVEL @ 600', SWAB 126 BBLs, WELL KICKED OFF, FLOW THRU 24/64" CHOKE FOR 2 1/2 HRS, RECOVER 48 BBLs, FTP 140 PSI, CSG 0 PSI, TURN WELL OVER TO TESTERS TO FLOW OVERNIGHT.

092492 BLEED OFF ALL GAS, PMP 20 BBLs 2% KCL WATER DWN TBG, NDWH, NUBOPS, PU AND RUN 5 SINGLES, TAG FILL 7,966', LD 4 SINGLES, LAND TBG @ 7,860', NDBOPS, NUWH, SWAB, START FLUID LEVEL 2200', RECOVER 54 BBLs, WELL FLOWED 2 HRS AND LOGGED OFF, SWAB AND RECOVER 10 BBLs, WELL FLOWING THRU 1/2" CHOKE FOR 2 HRS, RECOVERY OF 38 BBLs, RDSU, DAILY RECOVERY 332 BBLs, TO DATE 1738 BBLs.

092592 FLOW WELL ON CLEAN UP FOR 24 HRS, TBG SURGING 0-40 PSI EVERY 30-40 SECONDS, CSG PRS 1100 PSI, 1/2" CHOKE, DAILY RECOVERY 340 BBLs, TO DATE 2078 BBLs.

092692 FLOWING 24 HRS, TBG PR 70 PSI, CSG PR 1000 PSI, CHOKE 22/64" DAILY RECOVERY 440 BBLs, TO DATE 2518 BBLs.

092792 FLOW WELL ON CLEAN AFTER FRAC, FTP 40 PSI, VERY GASSEY, CSG PR 1400 PSI, CHOKE 22/64", DAILY RECOVERY 100 BBLs, TO DATE 2618 BBLs.

092892 FLOW WELL ON CLEAN UP AFTER FRAC, FTP 20 PSI, FCP 1500 PSI, CHOKE 22/64", DAILY RECOVERY 10 BBLs, TO DATE 2628 BBLs.

092992 FLOW WELL ON CLEAN UP FOR 24 HRS, FTP 0-5 PSI, FCP 1500 PSI, CHOKE 22/64", DAILY RECOVERY 0 BBLs, TO DATE 2628 BBLs.

093092 FLOW WELL FOR 21 HRS, WELL LOGGED OFF, TBG PRS 0 PSI, CSG PR 1700 PSI, CHOKE 22/64", DAILY RECOVERY 0 BBLs, DROP SOAP STICKS AND SI FOR 24 HRS.

100192 WELL SI FOR 24 HRS, TBG 200 PSI, CSG 1700 PSI, OPEN WELL TO FLOW, LOGGED OFF IMMEDIATELY, SI.

100792 SWAB, SITP 520 PSI, SICP 1700 PSI, BLEED WELL DOWN. NO FLUID, COULD NOT FEEL FLUID ON FIRST RUN DUE TO BEING VERY SOAPY, RECOVER 122 BBLs, TO DATE 2750 BBLs.

100892 SWAB SITP 400 PSI, SICP 1690 PSI, START FLUID LEVEL 400', RECOVER 118 BBLs, TO DATE 2868 BBLs.

100992 SWAB, SITP 500 PSI, SICP 1725 PSI, OPEN WELL, LOGGED OFF, FLUID LEVEL 500', RECOVERED 101 BBLs, WELL FLOWED 5 BBLs AND 13 BBLs, LOGGED OFF, DAILY RECOVERY FLOWING 18 BBLs, DAILY RECOVERY 119 BBLs, TO DATE 2987 BBLs.

101092 SWAB SITP 240 PSI, SICP 1740 PSI, START FLUID LEVEL 600', WELL FLOWED 30 MIN AFTER LAST SWAB, FLOWED 3 BBLs WATER, DAILY RECOVERY OF 128 BBLs, TO DATE 3115 BBLs, ZERO LOAD LEFT TO RECOVER, RECOVERED +5 BBLs OVER LOAD.

101192 MIRUSU, SITP 350 PSI, SICP 1950 PSI, BLEED DN ALL GAS, NDWH, PULL ONE SINGLE, NUWH, RDMOSU, TBG BTM NOW 7,829', BOTH TBG AND ANNULAS HAD SLIGHT BLOW BEFORE LEAVING LOCATION.

101392 SWAB, SITP 630 PSI, SICP 425 PSI, START FLUID LEVEL 500', RECOVER 30 BBLs, WELL FLOWED 1 HR AND 20 MIN, RECOVERD 11 BBLs, SWAB, RECOVER 93 BBLs, FINAL FLUID LEVEL 1200', DAILY RECOVERY 134 BBLs, TO DATE 3249 BBLs.

101492 SWAB, SITP 420 PSI, SICP 420 PSI, OPEN WELL, WELL LOGGED OFF, START FLUID LEVEL 400', RECOVER 76 BBLs, WELL FLOWING, FLOWED 133 BBLs, DAILY RECOVERY 209 BBLs, TO DATE 3458 BBLs.

101592 THRU 102692 FLOWING WELL TEST, SEE OTHER ATTACHMENT FOR DATA.

102192 DECISION MADE TO SHUT THE WELL IN.

102792 MIRUSU, BLEED WELL DWN, WELL DEAD, NDWH, NUBOPS, TOH W/TBG, TIH W/ GAUGE RING AND JUNK BASKET, COULD NOT GO BELOW 7,400' TRUCK DID NOT HAVE ENOUGH LINE, TOH.

102892 TIH W/ JUNK BASKET AND GAUGE RING, TAG FILL @ 7,912', TOH, RD WL, CHECKED W/BLM, WAYNE TOWNSEN, OK TO SET RET @ 7,900' W/O CLEANING OUT TO BTM PERF, RI WL, TIH W/ CMT RET SET @ 7,898', RD WL. 102992 TIH W/ TBG, NDBOPS, NUWH, SWAB, START FLUID LEVEL 300', RECOVER 165 BBLs (NO GAS), ENDING FLUID LEVEL 2,400'. 103092 TBG 250 PSI, CSG 80 PSI, WELL BLED OFF IMMEDIATELY, SWAB, SART FLUID LEVEL 1200', RECOVER 152 BBLs, END FLUID LEVEL 3,600', CSG 110 PSI, WELL SHUT IN.RDMOSU, SWABBED TOTAL 317 BBLs AFTER SETTING PLUG, NO FLOW, OPERATIONS SHUT DOWN.

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