OXY Mossberg Fed-1

Date	Remarks
6/20/07	Set anchors. Clean and level location. MIRU Key Well Serv and Lucky Rev. Unit. NDWH. NU BOP. Test BOP, found bad closure unit. Change out closure unit. Rack and tally 427 joints of 2 3/8 L-80 tubing. RIH with 6 1/8 Varel bit - bit sub - 6 3 1/8 od drill collars - top sub on 33 joints 2 3/8 tubing.
6/21/07	Continue to RIH with 6 1/8 bit - 3 1/8 drill collars on tubing. Tag up at 8031' on 248 joints 2 3/8. CHC. Test liner top to 1000#. OK. Rig down swivel. POOH with tubing and collars. Change out bit. RIH with 3 3/4 Varel bit - bit sub - 6 3 1/8 drill collars - top sub on 270 joints 2 3/8 tubing to 8732'.
6/22/07	Continue to RIH with 3 3/4 od bit - bit sub - 6 3 1/8 drill collars - top sub on 400 joints 2 3/8 tubing. Tagged up at 12843'. Rig up reverse unit. Clean out to 12890'(float collar) Displace hole with 400 bbl 6% KCL water. Test casing to 1000#. Held. POOH Laying down 2 jts 2 3/8. Stand 200 stands in derrick. Lay down drill collars.
6/25/07	RIH with Baker dress off mill for liner top. Tag up on liner at 8031' on joint 254 Dress off liner top. POOH laying down 16 joints 2 3/8 tubing. Stand 384 joints in derrick. Rig up Baker Atlas WL trk. RIH with CBL tool. Pull CBL log from 12888'(by wireline) to liner top at 8032'(by wireline. 2nd pass held 1000# on casing. POOH with logging tool.
6/26/07	Rig up Baker Atlas. RIH with gamma ray and perf gun. Corrolate gun on depth and shoot the "Upper Morrow" formation from 12498' - 12318' (2 SPF 120degree phasing - 72 holes total) with 23 gram 311NT charges in 2 runs.(.36 EH - 26" pent.) Upper Morrow Perforation Interval 12318 - 12323 ft (MD) 12346 - 12355 ft (MD) 12382 - 12387 ft (MD) 12410 - 12414 ft (MD) 12486 - 12490 ft (MD) 12495 - 12498 ft (MD) POOH and RD Halliburton. RIH with Baker 4 1/2 Retriev a matic packer - 2 3/8 seating nipple on 386 jts 2 3/8 tubing. Set packer at 12228' in 14000# compression. Test packer to 1000#. Packer did not hold. Move packer up hole to 12196' and reset. Test packer to 1000#. Packer did not hold. Release packer and POOH with 385 joints 2 3/8 tubing - 2 3/8 s/n and packer. Secure Well. SD. RIH with Baker 4 1/2 Retriev a matic packer - 2 3/8 seating nipple on 386 jts 2 3/8 tubing. Set packer at 12228' in 14000# compression. Test packer to 1000#. Packer did not hold. Move packer up hole to 12196' and reset. Test packer to 1000#. Packer did not hold. Release packer and POOH with 385 joints 2 3/8 tubing - 2 3/8 s/n and packer.
6/27/07	Open well up with 900# SIP. Bleed off pressure. RIH with 2 3/8 WLEG - 1.81 F-nipple - 6' X 2 3/8 tubing sub - 4 1/2 Baker mechinical set Hornet packer - inverted on/off tool with 1.875 profile on 386 jts 2 3/8 tubing. Set packer at 12226' in 10,000# compression Rig up Halliburton. Acidize the "Morrow" formation using 4000 gal. 7 1/2% HCL acid. Dropping 100 7/8od 1.3 SG bioballs as diversion. Flush acid to bottom perf with 6% KCL water. ISIP = 2440#. 5 min = 2333#. 10 min. =2281#.15 min = 2237. Close well in and RD Halliburton. Well Broke at 6449#. Max press = 6100#. Avg press. = 4550#. Max rate = 4.0 BPM. Avg. rate = 3.5 BPM. . Open well up to flow back tank on 24/64 choke @ 2100#. Flow well for 3 hours. Recovered 121 bbl. fluid. Well flowing at 70# thru wide open 2" valve at 5:00pm. Reduce flow to 24/64" choke. Flowing pressure went to 400# in 15 minutes.
6/28/07	Open well up with 4700# of shut in pressure. Install piping for MIT test. Test 9-5/8" X 7" annulus to 500#. Lost 10# in 30 minutes. Test witnessed by J.D. Whitlock. Flow tubing down to 200#. Pump 20 bbls of 6% followed by 100 bbls of 10# brine down tubing. Bleed pressure off of tubing. Open tubing to flow. Tubing started to flow back. Shut in tubing. Pressure went to 500# in 15 seconds. Open tubing back to flow. Recover 100 bbls in one hour. Well was flowing on a 24/64 choke @ 300# after one hour. Recover 100 bbls.
6/29/07	Open well up with 3800# of SITP. Blow well down to 0#. Pump 47 bbls 10# brine down tubing. SI tubing with 1250#. Blow down tubing. Recover 40 bbls of fluid. Tubing flowing @ 50# on a 24/64 choke. RIH W/ pulling tool. Latch onto plug. POOH. RIH W/ "FSG" plug. Set and test plug - OK.

Date	Remarks
6/30/07	Finish setting FSG plug and test -OK bleed pressure bleed pressure Strip out of hole with 389 joints 2 3/8 tubing - 2 3/8 seating nipple - packer. Rig up Guardian casing saver. Rig up Halliburton. Frac Morrow Formation 12318' - 12498' W/ 27,163 gal of 40# gel, 60,000# of PROP-PREMIUM PLUS, and 210 tons of CO2 downhole. The average treating rate was 33.7 bpm and average WH pressure was 4733 psi. The total liquid load to recover is 27,162 gal. ISIP=3,455# 5 min=3,154# 10 min=3,081# 15 min=3,037# Secure Well. Rig down Halliburton and guardian. Turn well over to Weatherford flow back hand.
7/2/07	Well flowing at 1500# pressure on 22/63 choke at 7:00 am. Pressure came up to 1600# at 8:00 and stayed there for 9 hours.
7/3/07	Open well up with 4,500# of shut in pressure. Pull CO2 sample = 1%. Rig up Halliburton wireline. RIH W/gauge ring and tag @ 12,768' RIH W/ wireline entry guide, 1.78" nipple, 6' tubing sub, 4 ½" Hornet packer, and 1.81"nipple with on/off tool. Top nipple at 12,238' RiG down Halliburton wireline. Blow casing down to 2500'
7/5/07	Open well up with 2800# of pressure Blow down casing. RIH W/ 387 joints of 2 3/8" L-80 tubing. Circ with 350 bbls of treated 6% KCL. Engage on/off tool. Test to 1000# -OK Tree up well
7/6/07	Rig up Schlumberger slick line. Pull 1.81 plug out of packer. Attempt to flow well between storms. Recover 48 bbls. of fluid. (Tubing capacity 47 bbl.) Initial tubing pressure 500#. Ending tubing pressure4400#.
7/9/07	RDPU

McVAY DRILLING COMPANY
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(505) 397-3311
FAX: 39-DRILL

Well Name and Number: Mossberg Federal # 1

Location: Sec 28, T24S, R28E Eddy County, NM

Operator: Oxy

Drilling Contractor: McVay Drilling Company

The undersigned certifies that he is an authorized representative of the drilling contractor who drilled the above described well and that he has conducted deviation tests and obtained the following results:

Degrees @ Depth		Degrees @ Depth	
1 ½	609	2 ¾	9165
1 ¼	612	2	9657
1 ½	1480	2	10041
2	259	2 ¾	10834
2	2479	2 ¾	11143
2 ½	2727	2 ¼	11205
2	2927	2 ¾	11296
1	3342	2 ¾	11572
1	3814	2 ¾	11726
1	4314	1 ¾	11846
½	4813	1 ¼	11938
¼	5313	1 ½	12032
½	5810	1 ½	12313
2 ¾	6814	1	12627
3 ¾	7314	1 ¾	12730
3 ¼	7785		
2 ¾	8099		
2 ¼	8851		

Drilling Contractor: McVay Drilling Company

By: H.H. Crouch Jr.

Subscribed and sworn to before me this 16th **day of** June **, 2007**

Tina Flemister
Notary Public
Lea County, New Mexico

My Commission Expires: 8/16/09