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AUG 14 2012

Farmington Field Office
Bureau of Land Management

Form 3160-5
(March 2012)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No 1004-0137
Expires October 31, 2014

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE – *Other instructions on page 2.*

5 Lease Serial No
NMSF079600

6 If Indian, Allottee or Tribe Name

7 If Unit of CA/Agreement, Name and/or No

1 Type of Well
☑ Oil Well ☐ Gas Well ☐ Other

8 Well Name and No
CW Roberts #5

2 Name of Operator
Four Star Gas & Oil Company

9 API Well No
30-039-21295

3a Address
ATTN. Regulatory Specialist
332 Road 3100 Aztec New Mexico 87410

3b Phone No *(include area code)*
505-333-1941

10 Field and Pool or Exploratory Area
39189 Lindrith Gallup-Dakota West

4 Location of Well *(Footage, Sec., T.R.M., or Survey Description)*
1850' FNL 1650' FWL Sec 17, Twp 25N, Rng 3W

11 County or Parish, State
Rio Arriba, New Mexico

12 CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☑ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☑ Other Perforate and fracture
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

BP

13 Describe Proposed or Completed Operation Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones Attach the Bond under which the work will be performed or provide the Bond No on file with BLM/BIA Required subsequent reports must be filed within 30 days following completion of the involved operations If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection)

7/23/2012
Tbg press = 760 psi, Csg press = 800 psi, Bradenhead press = 18 psi, bleed Bradenhead to zero. RU flowback line. Bleed gas to flowback tank. Pressure test two 2-3/8" TIWs & two 2-7/8" TIWs (250 lo/1500 high) ND B-1 adapter.

7/24/2012
SICP = 540 psi, SITP = 80 psi.
Blow down well. RU floor. NU Class III stack. Pressure test pipe, blind, & annular 250 psi low, 1500 psi high. Tests good. Receive 8300' of 2-7/8" L-80 workstring.
LD 255 jts 2-3/8" 4.7# J55 EUE. Change out 2-3/8" pipe ram for 2-7/8" ram, slips, & elevators Pressure test ram 250 low / 1500 high. Tests good.

7/25/2012
SICP = 380 psi. Tally 2-7/8" workstring. Caliper elevators. PU 7" casing scrapper & start TIH.
Continue TIH w/ casing scrapper. LD scrapper. PU 7" RBP / packer. TIH to 1969'.

RCVD AUG 16 '12
OIL CONS. DIV.
DIST. 3

See attached for remainder of details.

Need Completion Report 3160-4 for records

14 I hereby certify that the foregoing is true and correct Name *(Printed/Typed)*

April E. Pohl

Title Regulatory Specialist

Signature April E Pohl

Date 8/14/12

ACCEPTED FOR RECORD

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

AUG 15 2012

FARMINGTON FIELD OFFICE

Approved by

Title

Date

Conditions of approval, if any, are attached Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon

Office

Title 18 U S C Section 1001 and Title 43 U S C Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on page 2)

NMOCD

CW Roberts #5 API 30-039-21295

7/26/2012
SICP = 320 psi. Continue TIH & set RBP @ 6990'. Load 40 bbls of 2% KCL biocide water on plug, set packer. Would not pressure-up. Move plug up to 6973'. Load water on plug, set packer. Pressure test failed. Move plug to 6500'. Load water onto plug. Test failed, would not pressure-up.

TOH & break-out tools. No visible marks or damage of any kind on packer elements. Tools had gritty paraffin stuck in crevices.

7/27/2012
Multigas readings 20.9 oxygen, 0 H2S, 0 CO2, 0 LEL. Spot Poor Boys & take-on 60 bbls 2% biocide water. Spot & RU Poor Boys at well.
Hot Oil 7" casing 60 bbls @ 250 deg.
RIH w/ 7" CBP & set same @ 6980'. Fluid level detected @ 3200'. POOH.
Load hole from fluid level. Pressured to 500 psi. Allow air/water flip-flop.
RIH & pull Schlumberger CBL. RU WSI & test casing to 500 psi surface pressure. Rock solid chart.
Perf MesaVerde w/ 4" HEGS guns 3 spf 5812-18, 5835-44, 5857-5890, 5933-36, & 5966-70'. Fifty-four feet of perfs over 158' interval. One hundred sixty-five 0.42" holes. RD Schlumberger.
Pressure test 3-1/2" pipe rams 250 psi low, 1500 psi high.

7/28/2012
TIH w/ packer on 3-1/2", 9.3 # tubing. Continue TIH & set packer @ 5702'.
Move-out racks & hydrawalk. RU frac valve / guide for stinger into tubing. RU stinger.

7/29/2012
RU HES. Pump & ball-off w/ acid.
Delta Frac well w/ 83,569 lbm ottowa 20/40 sand, Max treating pressure - 8055 psi. Average treating pressure - 7481 psi. Max wellhead rate ~ 37 bpm, Fluid to recover - 657 bbls. Final ISIP - 3818 psi. 5 min - 2136 psi. 10 min - 2003 psi. 15 min = 1912 psi.Annulus pressure started @ 100 psi. Max pressure ~ 450 psi. Annular pressure bled down with treating pressure.
RD HES. RD Stinger.
Finish RU WSI flowback.
Open well up @ 1700, 1400 psi, 10/64 choke flowing back nitrogen.

7/30/2012
Flowback well.

7/31/2012
RD flowback. RD frac valve & tubing hang-off (BO2 connector). Unseat packer. TOH LD 3-1/2" frac string. RD WSI flowback equipment and frac stack. Set-up HydraWalk & racks. RU both 3" lines to flowback.
Unseat Baker packer & TOH LD 3-1/2" tubing.

8/1/2012
SICP = 120 psi. Change to 2-7/8" rams & pressure test 250 psi low / 1500 psi high. Tests good.
Load-out 3-1/2" tbg to Oil Tool company. Replace seals on swivel.

MU junk mill &TIH. Continue in hole to 5040'.
Hook-up air-foam unit and unload well.
TIH to (5670') just above MesaVerde perfs (top perf 5812').

8/2/2012
SICP = 440 psi. TIH to just above CBP, 6980'. Unload well w/ air-foam unit & blow down well.
Establish circulation & drill CBP. Unload feed-in from Gallup & Dakota. Circulate sweep.
Hang swivel. TOH to above MesaVerde.

8/3/2012
SICP = 860 psi. Transfer 2% KCl water to rig's frac tank. Pull two loads of flowback.
Blow well down. Unload well from above MesaVerde. TIH & tag @ 8054'. Unload well from tag.
PU swivel. Establish circulation & drill 10' of hard fill. TOH to above MesaVerde perfs.

8/6/2012
Check well, SICP - 960 psi, SITP - 0 psi, Open well to flowback tank
RIH w/ mill, tag for fill at 8072 on 256 jts
Start air, establish circulation, Built to 1000 psi then started unloading

Start mist at 12 bwph & 400 psi, Drlg, Made 4' in first 2 hrs recovering frac sand, small pieces of rubber, Broke thru @ 1200 hrs @ 8076', Cont cleaning out, Clean out well to 8146' (10' out on jt 259, very hard drlg at this pt,circ clean, recovering mostly frac sand, a few very small pieces of scale. SD air.
LD one jt, rack swivel, POOH w/ 37 stnds 2 7/8 workstring to 5795'. Secure well, SDFN.

8/7/2012
Check well, SICP - 820 psi, SITP - 0 psi (string float), Open well to flowback tank
Caliper Elevators, RIH w/ 75 jts workstring, (Held BOP drill) Tag for fill @ 8138' 8' fill overnight
Start air, establish circulation, Built to 1150 psi before unloading, Unloaded 70 bbls w/ trace of oil

Start mist at 12 bwph, PSI falling to 350 psi, One 3 bbl sweep/hr, Washout fill to 8146, Drill/cleanout from 8146' to 8149 hard drilling, continue cleaning out to 8188' pipe measurement (PBTD@8168) recovering trace of oil, frac sand, scale and plug pieces. Did not tag a solid bottom.
Circulate well off bttm, Pumping 2 - 3 bbl sweeps/hr, Recovering 1/2 to 1 cup frac sand per 5 gal sample, Last sample taken down to 1/4 cup/5 gallon sample
SD air, Rack back swivel, POOH w/ 76 jts to above Mesaverde perfs, Secure well, SDFN.

8/8/2012
Check well, SICP - 760 psi, SITP - 0 psi (string float)Open well to flowback tank and bleed down.
RIH w/ 2 7/8" workstring, Tag for fill @ 8175' (13' fill overnight)
Start air, establish circulation. Built to 1000 psi.
Start mist @ 13 bwph, wash out fill @ 375 psi to 8188' pipe meas, recover frac sand, pump sweeps
Samples show just a trace of sand, SD air, POOH, LD 2 7/8" workstring
Offload 1/2 of prod pipe, load and sent 1/2 of workstring out. Secure well, SDFN.

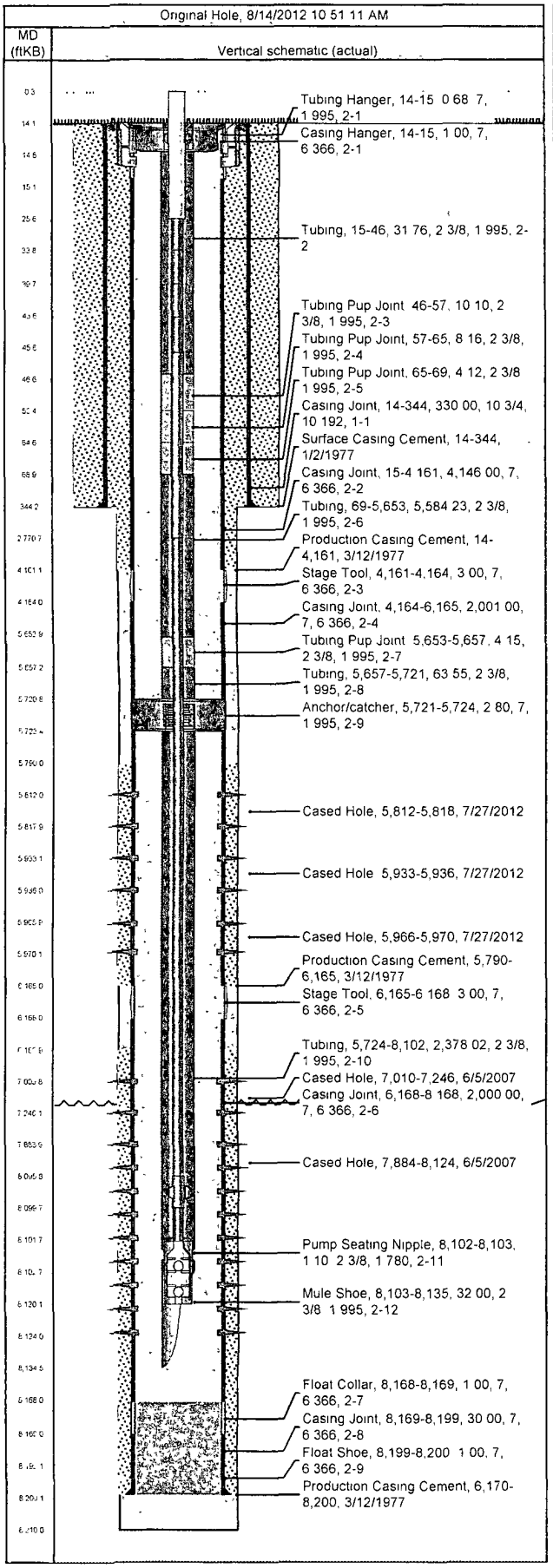
8/9/2012
Check well, SICP - 720 psi. Open well to flowback tank.

PU 2 3/8" elevators and caliper same. Change out pipe rams to 2 3/8", PU and install hangar, Test rams to 250/1500 psi. Test good.
Take delivery of remaining 2 3/8" prod tbg, Load out remaining 2 7/8" workstring and returned. Tally Pipe
PU & RIH w/ Muleshoe, SN, 2 3/8 L80 tbg
Continue in hole w/ 2 3/8 prod tbg
Load remaining 2 3/8 tbg to racks, tally same
Cont in hole w/ 2 3/8 prod tbg, PU Hangar and land same. Total of Muleshoe(32), SN(1.10), 75 jts 2 3/8 4.7# L80 8rd EUE(2378.02), TAC(2.80), 2 jts(63.55), 4' pup(4.15), 176 jts((5584.23), 4' pup(4.12), 8' pup(8.16), 10' pup(10.10), 1 jt (31.76), Hangar(0.68), 254 jts total + muleshoe, EOT - 8134.67, SN - 8102.67
RD Tongs, floor, ND annulars, ND BOP's
PU on hangar, set slips, Remove Hangar, Attempt to set TAC in tension, tried numerous times. Would not set. Install and land hangar, Left anchor unset, NU WH, Test void to 1500 psi. Secure well, SDFN.

8/10/2012
Check well, SICP - 700 psi. SITP - 0 psi. Open well to flowback tank.
PU and RIH w/ 2" x 1 1/4 x 18 RHAC pump w/ strainer nipple , and shear tool, 4' x 7/8" stabilizer bar, RIH in singles w/ 3/4" rods
Continue in hole w/ new 7/8, 3/4 rod string. Total of 18' RHAC pump, 2' x 3/4 pony w/ shear tool, 7/8" x 4' stabilizer bar, 213 - 3/4" x 25' rods, 109 - 7/8" x 25 rods, Space out w/ 2', 4', 6' & 8' x 7/8" pony rods, 1 1/4" x 26' PR
Load -test tbg to 500 psi, Test good, Check pump action w/ rig to 500 psi, Test good. Clamp off well. RDMO.

Wellbore Schematic

Well Name	Lease	Field Name	Business Unit
CW Roberts 05	Roberts, C W	Basin(New Mexico)	Mid-Continent/Alaska



Job Details

Job Category	Start Date	Release Date
Major Rig Work Over (MRWO)	7/23/2012	8/10/2012

Casing Strings

Csg Des	OD (in)	Wt/Len (lb/ft)	Grade	Top Thread	Set Depth (MD) (ftKB)
Surface	10 3/4	32 75	H-40		344
Production Casing	7	23.00	J-55		8,200

Tubing Strings

Tubing - Production set at 8,134.7ftKB on 8/9/2012 10:30

Tubing Description	Run Date	String Length (ft)	Set Depth (ftKB)
Tubing - Production	8/9/2012	8,120 67	8,134 7

Item Des	Jts	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Btm (ftKB)
Tubing Hanger		7			0 68	14 7
Tubing	1	2 3/8	4 70	L-80	31 76	46.4
Tubing Pup Joint	1	2 3/8	4 70	L-80	10 10	56.5
Tubing Pup Joint	1	2 3/8	4.70	L-80	8 16	64 7
Tubing Pup Joint	1	2 3/8	4.70	L-80	4.12	68 8
Tubing	176	2 3/8	4 70	L-80	5,584 23	5,653 1
Tubing Pup Joint	1	2 3/8	4 70	L-80	4 15	5,657 2
Tubing	2	2 3/8	4 70	L-80	63.55	5,720.8
Anchor/catcher		7			2 80	5,723 6
Tubing	75	2 3/8	4 70	L-80	2,378 02	8,101 6
Pump Seating Nipple		2 3/8			1.10	8,102.7
Mule Shoe	1	2 3/8	4.70	J-55	32 00	8,134.7

Rod Strings

Long rod on 8/10/2012 08:00

Rod Description	Run Date	String Length (ft)	Set Depth (ftKB)
Long rod	8/10/2012	8,120 25	8,120.0

Item Des	Jts	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Btm (ftKB)
Polished Rod	1	1 1/4			26 00	25 8
Pony Rod	1	7/8			8 00	33 8
Pony Rod	1	7/8			6.00	39 8
Pony Rod	1	7/8		D	4 00	43 8
Pony Rod	1	7/8		D	2 00	45.8
Sucker Rod	109	7/8	2.22	D	2,725 00	2,770.8
Sucker Rod	213	3/4	1 63	C	5,325 00	8,095 8
Stabilizer Bar,	1	7/8			4.00	8,099 8
Pony Rod, w/ shear tool	1	3/4			2 00	8,101 8
Rod Pump, 2 x 1 1/4x18x18'3"		2			18.25	8,120.0

Perforations

Date	Top (ftKB)	Btm (ftKB)	Shot Dens (shots/ft)	Entered Shot Total	Zone & Completion
7/27/2012	5,812 0	5,818 0	3 0		Dakota, Original Hole
7/27/2012	5,933 0	5,936 0	3.0		Dakota, Original Hole
7/27/2012	5,966 0	5,970 0	3.0		Dakota, Original Hole
6/5/2007	7,010.0	7,246 0	2.0	228	Gallup "H", Original Hole
6/5/2007	7,884 0	8,124.0	2.0	74	Dakota, Original Hole

Other Strings

Run Date	Pull Date	Set Depth (ftKB)	Com

Other In Hole

Des	Top (ftKB)	Btm (ftKB)	Run Date	Pull Date	Com
Cement	8,168 0	8,200 0	3/12/1977		

Report Printed: 8/14/2012