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NEW MEXICO OIL CONSERVATION COMMISSION

Nov 4 1 13 PM '65

Form C-103
Supersedes Old
C-102 and C-103
Effective 1-1-65

5a. Indicate Type of Lease	State <input checked="" type="checkbox"/> Fee <input type="checkbox"/>
5. State Oil & Gas Lease No.	B-8946

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT -" (FORM C-101) FOR SUCH PROPOSALS.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>	7. Unit Agreement Name
2. Name of Operator W. G. Smith, Jr.	8. Farm or Lease Name Atlantic State
3. Address of Operator c/o Ernest A. Hanson, P. O. Box 1515, Roswell, New Mexico	9. Well No. 1
4. Location of Well UNIT LETTER <u>G</u> <u>1980</u> FEET FROM THE <u>North</u> LINE AND <u>1980</u> FEET FROM THE <u>East</u> LINE, SECTION <u>32</u> TOWNSHIP <u>7-S</u> RANGE <u>35-E</u> NMPM.	10. Field and Pool, or Wildcat Undesignated
15. Elevation (Show whether DF, RT, GR, etc.) 4234' DF	12. County Roosevelt

Check Appropriate Box To Indicate Nature of Notice, Report or Other Data
NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐
TEMPORARILY ABANDON ☐
PULL OR ALTER CASING ☐
OTHER ☐

PLUG AND ABANDON ☐
CHANGE PLANS ☐
OTHER ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐
COMMENCE DRILLING OPNS. ☐
CASING TEST AND CEMENT JOB ☐
OTHER Perforating & acidizing ☒
ALTERING CASING ☐
PLUG AND ABANDONMENT ☐

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

10/25/65 Moved pulling unit to location and rigged-up.
10/26/65 Pulled tubing & rods. Wellex perforated 1 - 0.50" jet per foot @ 4380', 4388', 4399', 4418', 4428', 4435' and 4466'. Ran 2-3/8" tubing with HOWCO RTTS pkr. and RBP to individually breakdown each perf. with total of 1250 gals. of 15% reg acid. Broke down perf. @ 4466', 4435', 4428' and 4418'.
10/27/65 Continued acidizing and broke down perfs. @ 4399', 4388' and 4380'. Set RBP @ 4471' & RTTS pkr. @ 4354' & swb. 120 BLW + AW with sli. show of gas.
10/28/65 Continued swabbing for 10 hours & rec. 66 BLW + fair show of gas.
10/29/65 Continued swabbing for 2 hours & rec. 24 BLW + good show of gas. Pulled RBP & RTTS pkr. Reset RTTS pkr. w/bull plug below & perf. nipple above pkr. @ 4449' & swb. additional 45 BLW + good show of gas. Casing pressure built-up to 100 psi.
10/29/65 Swab well and run rods.
10/30/65 Well back on pump. Testing.
10/31/65 P. 99 BLW + 700 psi on casing.
11/1/65 P. 78.71 BLW + 800 psi on casing.

Will attempt to deplete water with pumping unit before fracing or final potential.

18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNED [Signature] TITLE Agent DATE Nov. 2, 1965

APPROVED BY [Signature] TITLE [Signature] DATE NOV 8 1965

CONDITIONS OF APPROVAL, IF ANY:

W. G. Smith - #1 Atlantic State
1980' FNL & FEL
Sec. 32, T. 7 S., R. 35 E., N.M.P.M.
Roosevelt County, New Mexico

Nov 4 / 13 PM '65

Daily completion report from files of W. G. (Bill) Smith.

Date	Remarks
5/21	TD 4564'. Condition hole to run logs. Wellex commence to run Acoustic Velocity, Forxo, Guard and MOP logs.
5/22	TD 4564'. Cont'd. to run above logs and rig down loggers. Condition hole for casing, laid down DP & DC. Ran 4559.20' of 4-1/2" csg. consisting of one joint of new 11.6#, J-55 on bottom with welded-on float shoe (had weathered for 6 years on rack), 5 joints immediately above of used 11.6# J-Smils LC&T and remaining new 11.6#, J-55 (same as bottom joint) SC&T and landed at 4558'. Used Weatherford centralizers and scratchers. Halliburton cemented with 250 sx. of Incor pozmix + 2% gel + 6# salt per sx. Rig released at 2:30 PM.
5/23	TD 4564'. Ran temperature survey and found TD at 4524' and top of cement outside of casing at 3625'.
5/24	TD 4564'. Monarch ran 4522' 2" EUE 8 rd upset tubing (used) and 4 - 6'2" subs and found plug @ 4549' KB, drilled out to 4555' KB, circ. and cleaned hole. HOWCO operator when cementing prod. csg. failed to trip release valve for initial wiper plug and injected same into csg. prior to final wiper plug following cmt. HOWCO maintained 3200# pressure on hole for 14 hrs. after cmt. job.
5/28	Well shut-in. Chase Well Service RU gin-pole swabbing unit.
5/29	Western displaced fresh water w/lease oil (purchased). Wellex ran PFC logs from 4551-4000'. Perf w/2 - Hornet Jets (0.54") at each of the following depths: 4491', 4500', 4508' & 4537'. Set HOWCO R-3 pkr. @ 4445' w/4-1/2" perf. nipple below. Western attempt to break down formation w/oil @ 5:48 PM w/2500#; cont. to attempt to breakdown with max. press. of 4500# and abandon efforts @ 8:45 PM.
5/30	Western re-commence breakdown operation @ 7:45 AM w/4500#; form. broke and injected 2000 gals. DS-30, 15%, @ 2800# @ rate of 2-1/4 BPM & flushed w/18.6 BLO, ISDP 2500#, total of 113 bbls. load to rec. Allowed form. to soak for 45 min., opened to tanks & flow thru open choke valve approx. 22 BLF. Cont'd. to swab w/show of gas and rec. all except 25 BLF. Well shut-in.
5/31	Wellex ran PFC and located above perfs. & re-perf. 2 Hornet Jets 0.54" @ ea. of following depths: 4491 1/2', 4500 1/2', 4508 1/2' & 4537 1/2'. Prior to above oper. pulled R-3 pkr. & tbg.; pkr. had to be re-dressed. Ran tbg. w/perf. nipple & R-3 pkr. on bottom; couldn't lower pkr. below 4522'. Western spotted acid, DS-30, 15% in hole & allowed to soak for 75 mins.; acidized w/2000 gals. w/18.6 BFW as flush. Max. press 3000#, min. 2600#, ISDP 2350#. Western used ball sealers for selective acidizing in this and the previous acid job and we failed to notice any pressure reaction. Well SI for 30 mins. and turn to tanks thru open choke valve and then flowed 18 BF, cont'd. to swab until fluid rate of entry decreased to 200' per run.
6/ 1	Shut down Chase Well Service @ 2:00 AM. Well did not have show of gas after this treatment and it is estimated we have 44 BLF or more to recover. Well shut in to pressure up and further orders.
6/ 2	Shut-in. No check on pressure.
6/ 3	SITP 300#. Bled off to tanks with no flow. Turned to tanks on 1/2" choke.

Date	Remarks
6/ 4	Well continued open to tanks on 1/2" choke until 7:00 AM on 6/8/65 with no flow. TP 50#.
6/ 8	Chase Well Service RU large unit. Western dpl. load oil w/brine water. Ran MWL csg. scratcher w/3-7/8" bit & swedged out crimp in csg. @ 4522'. MWL instructed to return the Guiberson pkr. they had on location and replace with A-5-S high press. tool. They did not have in Hobbs & had to send to Odessa for same. Operations shut-down @ 5:00 PM.
6/ 9	Ran MWL A-5-S pkr. & Western reloaded hole with 16 BXW lost overnight. Set pkr. @ 4539' & tested btm. of hole w/4200#; reset pkr. @ 4533' & tested perf. @ 4537' w/2600#. Western acidized perf. @ 4537' w/1000 gals. DS-30, 15%, max. press. 3200#, min. press. 1600#, ISDP 1800#, total load to rec. 46 BF. Well turned to pits & flwd. est. 15 BSW, ran swb. and 2nd run kicked off & flwd. AW. After several runs of swb., noticed press. from fm. gas on annulus. Bled off press. & packed off head. Continued to swb. undisclosed amount of XW (probably load in annulus). Indications of communication around packer, thru perfs. down casing or thru formation. Shut-down operations @ 8:00 PM due to rain.
6/10	Commence swabbing operations @ 9:30 AM & inserted standing valve in seating nipple @ 4503' after bleeding off SICP of 280#. Swb. est. 55 BF w/good sh. of gas & sli. sh. of oil. After CP dropped to 100# well swb. down to rate of 100' of fluid entry per run. Shut down operations because light plant would not start & it rained cats & dogs.
6/14	Well SI from 6/10 to this date due to inclement weather. SICP @ 600#, bled off TP w/no flow. Swabbed est. 48 BF w/good SG & SSO. When CP decreased to 180# or below, we did not get a fluid rate of 100' or more. Shut down swabbing operations @ 2:30 PM.
6/15	Shut-in.
6/16	SICP 600#. Bled off tbg. w/no flow. Pulled tbg. & ran MWL plug & pkr. Set plug @ 4533' & pkr. @ 4520' & tested csg. collar @ 4522' @ 3200#; set pkr. @ 4505' & tested perfs. @ 4508 @ 300# & determined there was communication with perfs. above. Attempt to pick up MWL plug @ 4533' & unseated w/30,000# (tbg. weighed 12,000 lbs), plug would not reseal to test pers @ 4500' & 4491', so came out of hole. MWL engineer thought plug was on string but when we reached the top the plug was missing.
6/17	Ran tbg. & located plug @ 2700' (top of fluid); attempt to reseal & failed; came out of hole & plug mandrel damaged (probably when unseating). Ran tbg. & set HOWCO pkr. @ 4458'. HOWCO squeeze w/ 175 sx. of Incor neat w/4 sx. walnut shells. Circ. press. @ 1000 lbs., max. press. @ 5000 lbs., flushed w/FW & pld. tbg.
6/18	Ran 3-7/8" bit (HTB) w/Baasch-Ross subs & collar & loc. top of cmt. @ 4436' & drld. out w/Baasch-Ross swivel tool to 4520'. Baasch-Ross had to redress circ. pump. on loc. & also the swivel control station had to be operated by short circulating w/bailing wire. Pld. tbg. & drlg. equip. Wellex ran PFC log & re-perf. w/ 2 Dyna Jets in case. 0.375" shots @ each of the following depths: 4491', 4497' & 4508'. Ran tbg to 4509' w/seating nipple on btm. & HOWCO R-3 pkr. 1 jt. above. Western washed over perfs. & acidized w/500 gals. DS-30, 15%, max. press. 3250#, min. press. 2800#, ISDP 2400#, avg. rate 1.5 BPM, total load 31 BF, flush w/FW. Pulled 1 jt. tbg. & set pkr. @ 4479' & turned well to tanks & swb. 38 BF w/sli. show of fm. gas & oil; turned well to pits,

Date	Remarks
6/19	Continued to swb. & rec. approx. 50 BF (total) after this treatment. Release Chase Well Service @ 12:00 AM. Well now turned to tanks on 1/2" choke & it is estimated there is 2500' fluid in hole.
6/23	Shut-down for orders.
	**Mr. B. I. (Bob) Miller of Fort Worth, Texas, conducted operations on well when the MWL tools were utilized, recommending the squeeze operation and the last acid treatment.
6/28	Ernest A. Hanson assumed authority for further testing and completion attempts. Pulled HCWCO R-3 packer. Ran HCWCO RTTS packer & cementing tool to 4368' & squeezed with 100 sx. Incor + 2% CaCl @ 5100 psi. WOC.
7/ 1	Drilled out cement and prep. to sand drill and re-treat reservoir. Stage #1: Sand drilled 2-3/8" hole @ 4538' for 30 mins. Frac. w/ 1000 gals. Spearhead acid + 995 BXW + 15,000 lbs. 20-40 sand. Treated @ 22.5 BPM @ 3500#. When we started flowing back Stage #1, it flowed back a little oil. Oil gradually inc. as press. depleted until steady stream of oil & well died. State #2: sand drilled 2-3/8" hole @ 4491' for 30 mins. Frac. w/ 500 gals. Spearhead acid + 660 BXW + 10,000 lbs. 20-40 sand. Avg. 24.2 BPM @ 3650#.

Date	Bbls. Wtr.	Bbls. Oil	Remarks
7/ 3	49.60	0	Producing all zones together.
7/ 4	129.66	0	Wtr. sli. more salty.
7/ 5	107.58	0	Salt water.
7/ 6	90.95	0	
7/ 7	118.55	0	
7/ 8	88.28	0	
7/ 9	90.95	0	
7/10	99.30	0	
7/11	80.00	0	
7/12	99.30	0	
7/13	100.49	0	
7/14	90.95	0	
7/15	55.18	0	Pumped approx. 12 hrs.
7/16	77.24	0	
7/17	80.00	0	
7/18	46.90	0	Pulling tbq. to put on packer. 1404.93 BXW
7/19	52.42	0	Pumping from 4538' only.
7/20	85.52	RSO	Sli. tr. rainbow SO + small amt. gas.
7/21	77.24	0	
7/22	74.48	0	Sli. amt. gas.
7/23	85.52	0	" " "
7/24	77.24	SSO	Sli. trace oil.
7/25	71.72	SSO	" " "
7/26	73.09	SSO	" " "
7/27	93.80	RSO	Just trace rainbow oil show.
7/28	74.48	RSO	
7/29	71.72	RSO	

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NEW MEXICO OIL CONSERVATION COMMISSION

Form C-103
Supersedes Old
C-102 and C-103
Effective 1-1-65

5a. Indicate Type of Lease
State ☒ Fee ☐

5. State Oil & Gas Lease No.
E-8946

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>	7. Unit Agreement Name None
2. Name of Operator W. G. Smith, Jr.	8. Farm or Lease Name Atlantic State
3. Address of Operator c/o Ernest A. Hanson, P. O. Box 1515, Roswell, New Mexico 88201	9. Well No. 1
4. Location of Well: UNIT LETTER <u>G</u> <u>1980</u> FEET FROM THE <u>North</u> LINE AND <u>1980</u> FEET FROM THE <u>East</u> LINE, SECTION <u>32</u> TOWNSHIP <u>7-S</u> RANGE <u>35-E</u> NMPM.	10. Field and Pool, or Wildcat Undesignated
15. Elevation (Show whether DF, RT, GR, etc.) 4234' DF	12. County Roosevelt

Check Appropriate Box To Indicate Nature of Notice, Report or Other Data
NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐
TEMPORARILY ABANDON ☐
PULL OR ALTER CASING ☐

PLUG AND ABANDON ☐
CHANGE PLANS ☐

OTHER ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐
COMMENCE DRILLING OPNS. ☐
CASING TEST AND CEMENT JOB ☒
OTHER Daily Report of Progress ☒

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

- 6-8-65 Swedged out crimp in casing w/ 3-7/8" scratcher @ 4522'.
- 6-9-65 Set pkr. @ 4533' & acidized perfs. @ 4537' w/ 1000 gals. 15% acid. Swab load & acid water.
- 6-10-65 Swb. & flow acid water. Rec. 100% load. Have communications to annulus above pkr.
- 6-11-65 Shut-in for orders.
- 6-17-65 Set HOWCO RTTS pkr. @ 4458' & squeeze w/175 sx. Inccr cnt. + 4 sx. walnut shells to 5000 lbs. & held for 30 mins.
- 6-18-65 Drilled out to new pkr. perf. 2 SPF @ 4491', 4497' & 4508'. Set HOWCO R-3 pkr. & acidize w/ 500 gals. 15% acid.
- 6-19-65 Swb. & flow load & acid water. Rec. 50 BAW w/VSSO&.
- 6-20-65 Shut-in for orders.

18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNED Harry F. Johnson TITLE Agent DATE June 26, 1965

APPROVED BY Joe C. James TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

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NEW MEXICO OIL CONSERVATION COMMISSION

Form C-103
Supersedes Old
C-102 and C-103
Effective 1-1-65

5a. Indicate Type of Lease	
State <input checked="" type="checkbox"/>	Fee <input type="checkbox"/>
5. State Oil & Gas Lease No.	
E-8946	
7. Unit Agreement Name	
None	
8. Farm or Lease Name	
Atlantic-State	
9. Well No.	
1	
10. Field and Pool, or Wildcat	
Undesignated	
12. County	
Roosevelt	

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER- <input type="checkbox"/>
2. Name of Operator
W. G. Smith, Jr.
3. Address of Operator
P. O. Box 939, Roswell, New Mexico 88201
4. Location of Well
UNIT LETTER G 1980 FEET FROM THE North LINE AND 1980 FEET FROM THE East LINE, SECTION 32 TOWNSHIP 7S RANGE 35E NMPM.
15. Elevation (Show whether DF, RT, GR, etc.)
4234 DF

Check Appropriate Box To Indicate Nature of Notice, Report or Other Data
NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐
TEMPORARILY ABANDON ☐
PULL OR ALTER CASING ☐
OTHER ☐

PLUG AND ABANDON ☐
CHANGE PLANS ☐
OTHER ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐
COMMENCE DRILLING OPNS. ☐
CASING TEST AND CEMENT JOB ☒
OTHER **Production Tests** ☐
ALTERING CASING ☐
PLUG AND ABANDONMENT ☐

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

Subsequent to our last report we have drilled to a depth of 4564'. On May 22, 1965 we ran a string of 4558' of 11.60# J55 4 1/2" casing and cemented with 250 sacks of Incor Pozmix with 2% gel and 6% calcium chloride. On May 23, 1965 the John W. West Engineering Co. of Hobbs, N. M. ran a temperature survey and located the top of the cement behind the pipe at approximately 3625'. On May 29, 1965 we perforated 4 1/2" casing with 2 jet shots per foot at 4491, 4500, 4508 and 4537 and on the following day attempted to treat the formation thru perforations with 2000 gallons of 15% non emulsion acid which we do not believe entered the formation thru said perforations. On May 31, 1965 we reperforated the 4 1/2" casing 6" below each of the above perforations with 2 jet shots per foot and again attempted to treat with 2000 gallons of 15% non emulsion acid which entered the hole in the same manner as the initial acid treatment. On this date we have swabbed all except 44 barrels of our load back from the above treatments and current plans call for testing the bottom of the hole for leaks.

WOC - 168 hours w/pt
Testd @ 3200# for 24 hrs & no draw down w/pt

18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNED W. G. Smith TITLE Landman DATE 6-9-65

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

1. The first part of the report is a general introduction to the subject of the study. It discusses the importance of the study and the objectives of the research. It also mentions the scope of the study and the limitations of the research.

2. The second part of the report is a literature review. It discusses the previous studies on the subject of the study. It also mentions the gaps in the existing literature and the need for the current study.

3. The third part of the report is the methodology section. It describes the research design, the data collection methods, and the data analysis techniques. It also mentions the ethical considerations of the study.

4. The fourth part of the report is the results section. It presents the findings of the study. It also discusses the implications of the findings and the conclusions of the study.