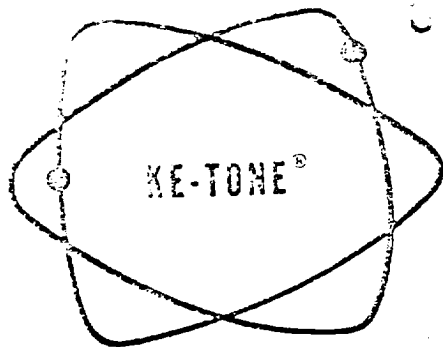




UNITED CHEMICAL CORPORATION

OF NEW MEXICO

P. O. BOX 1499

PHONE 393-7751

HOBBS, NEW MEXICO 88240

No. 2544
Run No. _____
Date of Run 7-4-73
Date Secured 7-3-73

CERTIFICATE OF ANALYSIS

A Sample of ATLANTIC STATE "B0" / COM ATT. H.L. PARCET
Secured from ATLANTIC RICHFIELD CO.
At Box 1710 Secured by Mr. PARCET & D. Simpson
HOBBS, N.M. 88240 Time _____ Date _____
Sampling conditions _____ Press 500
Temp. _____

FRACTIONAL ANALYSIS

Percentage Composition

	MOL %	LIQ. %	G.P.M.
Carbon Dioxide	<u>TRACE</u>		
Air			
Nitrogen	<u>.04</u>		
Oxygen			
Hydrogen sulfide			
Hydrogen			
Methane	<u>95.54</u>		
Ethane	<u>1.79</u>		<u>.477</u>
Propane	<u>1.35</u>		<u>.371</u>
Butanes			
Iso-Butane	<u>.21</u>		<u>.068</u>
N-Butane	<u>.53</u>		<u>.167</u>
Pentanes			
Iso-Pentane	<u>.14</u>		<u>.051</u>
N-Pentane	<u>.12</u>		<u>.051</u>
Hexanes	<u>PLUS</u> <u>.26</u>		<u>.106</u>
Heptanes			
TOTAL	<u>100.00</u>		<u>1.291</u>

Calc. Sp. Gr. 0.5984
Calc. A.P.I. _____
Calc. Vapor Press. _____ PSIA
Sp. Gr. _____
Mol. Wt. _____

LIQUID CONTENT (GAL./MCF)

Propane Calc. G.P.M. 371
Butanes Calc. G.P.M. 235
Pentanes Plus. G.P.M. 208
Ethane Calc. G.P.M. 477
RVP Gasoline G.P.M. _____

B.T.U./Cu. Ft. @ 14.696 P.S.I.A.

Dry Basis

Wet Basis

1079
1060

Sulfur Analysis by Titration

Gr./100 Cu. Ft.

Hydrogen Sulfide

Mercaptans

Sulfides

Residual Sulfur

Total Sulfur

✓ SWEET

Run by

Checked by

Approved by

Additional Data and Remarks

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Form C-105
Revised 1-1-65

NEW MEXICO OIL CONSERVATION COMMISSION
WELL COMPLETION OR RECOMPLETION REPORT AND LOG
RECEIVED

AUG 7 1973

1. TYPE OF WELL		OIL WELL ☐ GAS WELL ☒ DRY ☐		D.C.G.	
B. TYPE OF COMPLETION		NEW WELL ☒ WORK OVER ☐ DEEPEN ☐		PLUG BACK ☐ DIFF. RESVR. ☐ ARTESIA. OFFICE OTHER	
2. Name of Operator Atlantic Richfield Company —					
3. Address of Operator P. O. Box 1978, Roswell, New Mexico 88201					
4. Location of Well UNIT LETTER <u>G</u> LOCATED <u>1980</u> FEET FROM THE <u>North</u> LINE AND <u>1980</u> FEET FROM THE <u>East</u> LINE OF SEC. <u>15</u> TWP. <u>21S</u> RGE. <u>26E</u> NMEN					
15. Date Spudded 5-9-73		16. Date T.D. Reached 6-17-73		17. Date Compl. (Ready to Prod.) 7-1-73	
20. Total Depth 11150'		21. Plug Back T.D. 9586'		22. If Multiple Compl., How Many	
24. Producing Interval(s), of this completion — Top, Bottom, Name 9280'-9455' Cisco-Canyon (Penn)		23. Elevations (DF, RKB, RT, GR, etc.) 3185' DF		19. Elev. Casinghead 3174' GR	
25. Type Electric and Other Logs Run BHC - GR-Sonic, Dual Laterolog & Dipmeter				26. Was Directional Survey Made No	
27. Was Well Cored No					
28. CASING RECORD (Report all strings set in well)					
CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8"	48#	324.16	17-1/2"	325 sx Class C	None
9-5/8"	32.30#	2511	12-1/4"	1200 sx Class C + 15 cu yds ready mix	
4-1/2"	10.5 & 11.6	9610.24'	8-3/4"	425 sx Class H	None
29. LINER RECORD					
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	
None					
30. TUBING RECORD					
SIZE	DEPTH SET	PACKER SET			
2-3/8	9216.78	9207.58'			
31. Perforation Record (Interval, size and number) 9280', 82, 84, 86, 9338, 40, 42, 47, 49, 58, 60, 62, 64, 86, 88, 93, 9435, 40, 44, 46, 48, 50, 54 & 9455' - 3/8" jets - 25 holes					
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.					
DEPTH INTERVAL		AMOUNT AND KIND MATERIAL USED			
9280-9455		500 gal mud acid & 1500 gal 15% HCL acid			
33. PRODUCTION					
Date First Production 7-1-73		Production Method (Flowing, gas lift, pumping — Size and type pump) Flowing			Well Status (Prod. or Shut-in) Shut-in
Date of Test 7-3-73	Hours Tested 24	Choke Size 1 1/2"	Prod'n. For Test Period →	Oil — Bbl. 0	Gas — MCF 863
Flow Tubing Press. 400	Casing Pressure Packer	Calculated 24-Hour Rate →	Oil — Bbl. 0	Gas — MCF 863	Water — Bbl. 0
34. Disposition of Gas (Sold, used for fuel, vented, etc.) Shut in awaiting pipeline connection					Test Witnessed By LaRoy Knott
35. List of Attachments Logs - deviation survey record					
36. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.					
SIGNED <u>W.D. Butcher</u>		TITLE <u>Dist. Drlg. Supv.</u>		DATE <u>8-2-73</u>	

This form is to be filed with the appropriate District Office of the Commission not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 30 through 34 shall be reported for each zone. The form is to be filed in quadruplicate except on state land, where six copies are required. See Rule 1105.

Southeastern New Mexico

Northwestern New Mexico

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation
0	2310	2310	Ochoa
2310	4324	2014	Delaware Mountain
4324	7953	3629	Bone Spring
7953	8325	372	Dean
8325	9268	943	Wolfcamp
9268	9721	453	Cisco-Canyon
9721	10178	457	Strawn
10178	10524	346	Atoka
10524	11065	541	Morrow
11065	2310	95	Upper Mississippian
0	2310	2310	Dolomite & Anhydrite
2310	4324	2014	Sandstone w/shalebreaks
4324	5750	1426	Limestone brown shaley
5750	5970	220	Sandstone & shale
5970	7953	1983	Limestone, brown shaley
7953	8325	372	Sandstone & siltstone
8325	8700	375	Limestone & shale
8700	9268	568	Shale
9268	9630	362	Limestone w/shale str.
9630	9825	195	Sand conglomerate
9825	10450	625	Limestone
10450	10524	74	Limestone, quartzite, sand detrital
10524	10730	206	Limestone w/detrital
10730	11065	335	Sandstone & shale
11065	11150	95	Siltstone
11150	10450		
10450	10524		
10524	10730		
10730	11065		
11065	11150		

Attachment to Form C-105

State "BO" Com #1 - Atlantic Richfield Company, Operator
Unit letter G, 1980' FNL, 1980' FEL, Sec. 15, T-21S, R-26E, Eddy County, New Mexico

DST #1, testing Cisco-Canyon (Penn) OH 9290-9482'. 3/4" BC, adj. TC, no WC.

Took 15 min pre-flow on 1/4" chk. Gas to surface in 5 min. Gas volume increased to 1.29 MMCFD @ end of period. Surface flow pressure increased to 520#. Took 60 min ISI. Opened tool @ 6:00 AM 6/3/73 for 90 min main flow period. Well on 1/2" chk. Gas volume increased to a maximum of 3.54 MMCFD after 15 min & decreased to 2.28 MMCFD after 55 min. Surface flow pressure increased from 100# to a maximum of 550# & decreased to 340# at end of 55 min. Opened well to 3/4" surface chk. Gas volume increased to 3.26 MMCFD & decreased to 2.10 MMCFD at end of main flow period. Took 90 min FSIP. POH w/test tools. Recovered 30' of 56° gravity condensate & 290' of condensate & gas cut mud. Sample chamber recovery = 3.9 cu ft dry gas @ 500#, no fluid. Pre-flow IFP=1159#, pre-flow FFP=1203#, IHP=4390#, 60 min ISIP= 3772#, IFP=1028#, FFP=525#, 90 min FSIP=3552#, FHP=4346#, BHT=140° F.

DST #2, testing Upper Morrow Sand OH 10702-10810'. Took 15 min pre-flow. Tool opened w/weak blow, no gas to surface. Took 1 hr ISI. Opened for 1 hr main flow period. Opened w/weak blow, increasing to good blow in 30 min. No gas to surface in 1 hr. Closed for 2 hr SI. POH w/test tool, recovered 420' drilling mud. Sample chamber recovery @ 135 psi=1.7 cu ft gas, 750 cc mud. IHP=5185#, IPFP=131#, FFP=151#, ISIP=438#, IFP=241#, FFP=175#, FSIP=1094#, FHP=5141#, BHT=167° F.

DST #3, testing Middle Morrow Sand OH 10801-10895'. Opened tool for 15 min pre-flow. Opened w/weak blow, no gas to surface. Closed tool for 1 hr SI. Opened for 1 hr flow period w/weak blow, continuing for 1 hr. Took 1½ hr SI. Recovered 400' drilling mud. Sample chamber recovery @ 110 psi = 2300 cc DM. IHP=5272#, I&FPFP=153#, ISIP=350#, IFP=218#, FFP=262#, FSIP=590#, FHP=5228#, BHT=188° F.

DST #4, testing Lower Morrow Sand 10946-11025'. 3/4" BC, adj. TC, no WC. Took 15 min pre-flow, opened w/strong blow, gas to surface in 15 min. Gas rate at end of 15 min pre-flow = 308 MCFD. Took 1 hr SI. Opened tool for 60 min flow period. Gas rate 73 MCFD, decreasing to TSTM at end of test. Mud to surface 5 min after opening tool. Formation water to surface 1/2 hr after tool open, increasing to 18 BWPD @ end of flow period. Took 1½ hr SI. Recovered 282' gas cut mud, 7388' gas cut salt water. IHP= 5141#, IPFP=3596#, FFP=3817#, ISIP=4523#, IFP=3993#, FFP=4391#, FSIP=4523#, FHP=5053#, BHT=180° F. Sample chamber recovery @ 5500 psi 6/10 cu ft gas & 2500 cc wtr.

DST #5, testing Lower Morrow Sand 11048-11150'. Took 15 min pre-flow w/weak blow. Gas to surface in 8 min. Gas rate after 8 min was 184 MCFD, after 15 min 119 MCFD. Took 1½ hr SI. Opened tool for flow period w/weak blow. Well dead in 1 hr. Closed tool for 1½ hr SI. Recovered 661' gas cut mud, 4059' of gas cut salt water. Sample chamber recovery @ 100 psi 8/10 cu ft of gas, 2300 cc wtr. IHP=5324#, IPFP=522#, FFP=807#, ISIP=4643#, IFP=950#, FFP=2159#, FSIP=4598#, FHP=5279#, BHT=176°.

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WELL NAME AND NUMBER State "BO" #1

JUL 30 1973

LOCATION 1980/N&E Section 15, T21S, R26E, Eddy County, New Mexico
(New Mexico give U.S.T&R: TEXAS GIVE S, BLK, SURV. & TWP) O. C. C.

ARTESIA, OFFICE

OPERATOR Atlantic Richfield Company

DRILLING CONTRACTOR MORANCO

The undersigned hereby 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	Degrees @ Depth	Degrees @ Depth
<u>1/4 137</u>	<u>1 1/4 3996</u>	<u>1/4 9482</u>	
<u>1/2 320</u>	<u>1/2 4720</u>	<u>1 10,055</u>	
<u>1 497</u>	<u>1 1/4 4915</u>	<u>1 1/4 10,469</u>	
<u>1 1/4 965</u>	<u>1 1/2 5518</u>	<u>1 1/4 10,810</u>	
<u>1 1/4 1090</u>	<u>1 3/4 5971</u>	<u>3/4 10,895</u>	
<u>1 1/2 1247</u>	<u>2 6365</u>	<u>1 11,150</u>	
<u>1 1/2 1330</u>	<u>2 1/4 6932</u>		
<u>1 1/2 1620</u>	<u>1 1/2 7430</u>		
<u>1 1/4 2056</u>	<u>2 7880</u>		
<u>1 1/4 2233</u>	<u>1 3/4 8420</u>		
<u>1 1/4 2511</u>	<u>1 3/4 8780</u>		
<u>1 3100</u>	<u>1 3/4 8980</u>		
<u>1 1/4 3600</u>	<u>1 3/4 9220</u>		

Drilling Contractor MORANCO

By

K. D. McPeters, Vice President

Subscribed and sworn to before me this 29th day of June, 19 73

My Commission expires:
APRIL 1, 1974

Wayne Surmney
Notary Public
Lea County, New Mexico

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NEW MEXICO OIL CONSERVATION COMMISSION

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JUL 30 1973

Form C-103
Supersedes Old
C-102 and C-103
Effective 1-1-55

5a. Indicate Type of Lease
State ☒ Fee ☐
5. State Oil & Gas Lease No. K-5721

SUNDY NOTICES AND REPORTS ON WELLS O.C.C.
(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 ☐ GAS WELL ☒ OTHER ☐	7. Unit Agreement Name
2. Name of Operator Atlantic Richfield Company	8. Farm or Lease Name State "BO" Com
3. Address of Operator P. O. Box 1978, Roswell, New Mexico 88201	9. Well No. 1
4. Location of Well UNIT LETTER G 1980 FEET FROM THE North LINE AND 1980 FEET FROM THE East LINE, SECTION 15 TOWNSHIP 21-S RANGE 26-E NMPM.	10. Field and Pool, or Wildcat Undesignated
15. Elevation (Show whether DF, RT, GR, etc.) 3185' DF	12. County Eddy

16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

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

PLUG AND ABANDON ☐
CHANGE PLANS ☐
OTHER ☐

REMEDIAL WORK ☐
COMMENCE DRILLING OPNS. ☐
CASING TEST AND CEMENT JOBS ☒
OTHER Completion ☒

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.

Drilled 8-3/4" hole to 11150' T.D. Ran electric logs. Set 50 sk Class H cement plug 11076-10940'; 35 sx 10638-10538; 35 sx 9750-9650'. Ran 208 jts of 4 1/2" OD 8R 10.5# K-55 & 11.6# N-80 casing and set @ 9610.24' RKB. Cemented 4 1/2" casing w/225 sx Class H + 4% gel & 200 sx Class H neat. Plug down @ 2:15 A.M. 6/22/73. TOC @ 8120' by temperature survey. WOC 6 days. Tested 4 1/2" casing to 2000# for 30 min. Held OK. Perforated Cisco-Canyon (Penn) w/one 3/8" JS ea @ 9280, 82, 84, 86, 9338, 40, 42, 47, 49, 58, 60, 62, 64, 86, 88, 93, 94, 9435, 40, 44, 46, 48, 50, 54 & 9455' (GR-Sonoc log - 25 holes). Ran Guiberson 2-3/8" x 4 1/2" KVL-30 packer and hydraulic holddown on 297 jts of 2-3/8" N-80 tubing, bottomed @ 9217'. Treated above perms w/500 gallons mud acid & 1500 gallons 15% HCl-LSTNE and ball sealers. FBD @ 2000#, AIR 3.1 BPM @ 2500#. Swabbed well in. On 24 hour test on 7/3/73, well flowed gas at rate of 863 MCFD on 1/2" chk, FTP 400#.

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

SIGNED O.D. Sletcher TITLE Dist. Drlg. Supervisor DATE 7/27/73

APPROVED BY W.A. Gussert TITLE OIL AND GAS INSPECTOR DATE AUG 7 1973

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NEW MEXICO OIL CONSERVATION COMMISSION

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

MAY 22 1973

5a. Indicate Type of Lease	
State ☒	Fee ☐
5. State Oil & Gas Lease No.	

O. C. C.

SUNDY NOTICES AND REPORTS ON WELLS, OFFICE
(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 ☐ GAS WELL ☐ OTHER- Drilling	7. Unit Agreement Name
2. Name of Operator Atlantic Richfield Company	8. Farm or Lease Name State "BO" Com
3. Address of Operator P. O. Box 1978, Roswell, New Mexico 88201	9. Well No. 1
4. Location of Well UNIT LETTER G 1980 FEET FROM THE North LINE AND 1980 FEET FROM THE East LINE, SECTION 15 TOWNSHIP 21-S RANGE 26-E NMPM.	10. Field and Pool, or Wildcat Wildcat
15. Elevation (Show whether DF, RT, GR, etc.)	12. County Eddy

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

PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☐	COMMENCE DRILLING OPNS. ☐	PLUG AND ABANDONMENT ☐
PULL OR ALTER CASING ☐	OTHER ☐	CASING TEST AND CEMENT JOB ☒	

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 1105.

Drilled 12 1/4" hole w/air & water to 2511' SLM. Pmpd in 2 pits of viscous mud containing lost circulation material. Ran 80 jts 9-5/8" OD 8R 32.30# H-40 ST&C csg w/float shoe & Float collar = 2496.61'. Set @ 2511' RKB. B J Service cemented w/250 sx Cl. C + 4% gel, 2% A-2, 2% CaCl₂ & 5#/sk gilsonite, followed by 350 sx Cl. C + 4% gel, 2% A-2, 2% CaCl₂ & 1/4#/sk flocele; tailed in w/200 sx Cl. C neat + 2% CaCl₂. PD @ 2:50 PM 5/16/73. WOC 4 hrs. Found TOC @ 900' by TS. Ran 3/4" tbg & tagged cement @ 900'. Pmpd in 300 sx Cl. C + 5% CaCl₂ in four 75 sk stages. Waited 3 hrs between stages. Pld 3/4" tbg up to 730' & pmpd in three 10 sk stages & formed bridge 711-730'. Pmpd in one 50 sk stage w/no fillup. Pmpd in two 10 sk stages containing 10% CaCl₂ w/no additional fill. Cemented 13-3/8" x 9-5/8" annulus from surface w/15 cu. yds of ready mix cement = 405 ft³ = 975 ft of calculated fillup in annulus. Job complete @ 11:00 PM 5/17/73. WOC 8 hrs. NU BOP's. Ran 8-3/4" bit & tested 9-5/8" csg to 1600# for 30 min. JC @ 1:00 PM 5/18/73. Resumed drlg - 8-3/4" hole.

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

SIGNED O. L. Litcher TITLE Dist. Drlg. Supervisor DATE 5/21/73

APPROVED BY W. R. Gussert TITLE OIL AND GAS INSPECTOR DATE MAY 22 1973

CONDITIONS OF APPROVAL, IF ANY: