

F-30-31N-9W✓

WCS15A.WK1
10-20-92

CONOCO

WELL: STATE COM 1 #3A
LOCATION: 1850' FNL & 1850' FWL
API NUMBER:
DATUM:
GROUND LEVEL:

SAN JUAN
COUNTY:
TOWNSHIP:
FIELD:
SECTION:
SPUD DATE:
COMPL. DATE:

NEW MEXICO
RANGE: 9 WEST
WT: 0 812500
NRI:

DATE: 4-75

DATE: 4-75

FORMATION : OPS

MEASURED DEPTH (FEET)

FORMATION

SUBSEA DEPTH (FEET)

4421

4346

3517

3191

1371

1289

966

LOGGING INFORMATION

DATE

TYPE

DEPTH (FEET)

3-11-75

SP-IEL

150-3084

3-15-75

SP-IEL

3021-5306

3-15-75

GR-FDL

3021-5313

4-15-75

CBL

3700-5257

4-15-75

GR-COLLAR

4283-5257

CASING RECORD

SIZE (INCHES)

GRADE

WEIGHT (#/FT.)

DEPTH (FEET)

CEMENT (SACKS)

TOC (FEET)

HOLE SIZE (INCHES)

10 3/4

1-55

40.50

138

125

CIRC

13 3/4

7

CW-55

23.00

3077

409

CIRC

8 3/4

4 1/2 LINER

10.50

2880-5306

245

CIRC &

6 1/4

2 3/8 TUBING

5107

2873 (TS)

PERFORMANCE RECORD

DATE

FORMATION

DENSITY

DEPTH (FEET)

4-75

CLIFFHOUSE

1 SPF

4464-4466, 4570-4572, 4612-4614, 4621-4625, 4632-4642

4654-4556, 4664-4672

4777-4787, 4806-4816, 4864-4870, 4874-4878, 4888-4898

5016-5026, 5050-5060, 5107-5117

DST INFORMATION

DATE

FORMATION

DENSITY

DEPTH (FEET) AND RESULTS

CORE INFORMATION

DATE

FORMATION

DEPTH (FEET) AND RESULTS

MISCELLANEOUS

RECEIVED

DEC 27 1993

OIL CON. DIV

DIST. 2

10-20-92

STATE COM I #5A

SAN JUAN OU

CURRENT COMPLETION

SURFACE CASING

10 3/4" @ 158'

125 SACKS CEMENT

TOC: CIRC.

KB: 5981'

GLE: 5969'

PRODUCTION CASING

7", J-55, 23.0# @ 3077'

409 SACKS CEMENT

TOC: CIRC

TUBING

2 3/8" @ 5107'

MESA VERDE

4464-5117'

LINER

4 1/2", CW-55, 10.5#

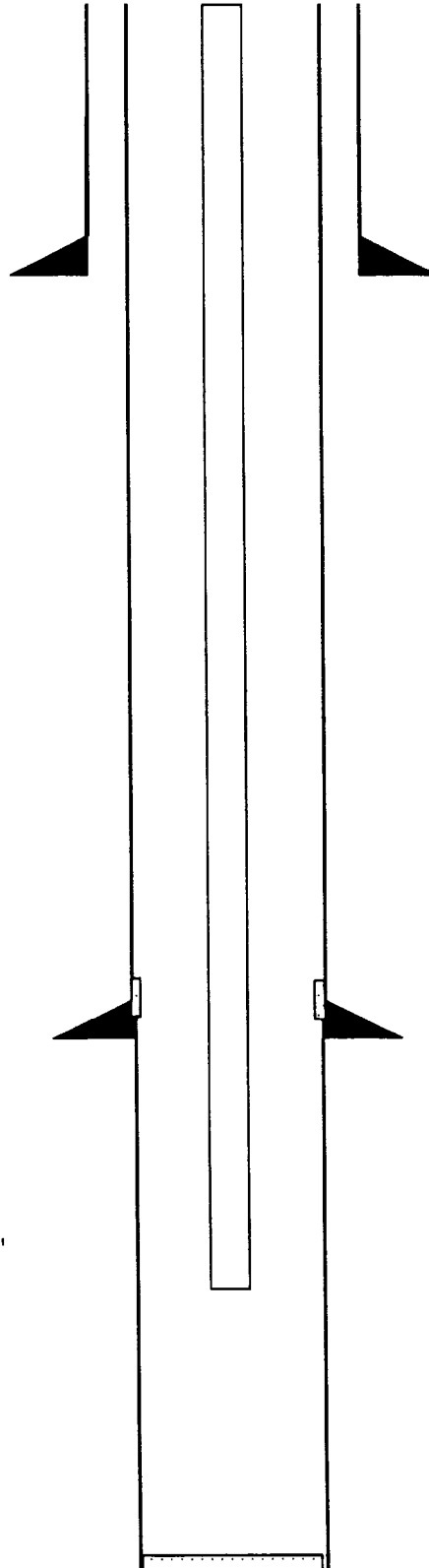
FROM 2880-5306'

245 SACKS CEMENT

TOC: CIRC & 2875' (TS)

PBTD: 5264'

TD: 5310'



XC: Central Records -

Acctg. -

Div. Mgr. -

12/2/75
6/2/75 James Archer

WELL RECORD

Well Name and Operator Mesa - State Com I #5A

Location Sec. 36, T31N-R9W, San Juan County, New Mexico

Spud date 3/3/75 Elevation 5969' GL TD 5310'

PBTD 5264' Date TD Reached 3/16/75 Date Drlg. Rig Moved off 3/16/75

Date Comp Unit Moved On 4/10/75 Date Comp Unit Moved Off 4/22/75

W. I. Owners Mesa - 75%

EPNG - 25%

Contractor Arapahoe Drilling Prospect Archuleta

Type Well Gas OP No. 10-726-A2 Prod Form Mesaverde

F I R S T R E P O R T

- 3-4-75 Spudded 4 PM 3/3/75. Drlg. @ 158. 158' @ 1/2°. Ran
7 jts of used 10 3/4" csg., total of 143.70, set @ 157.70
KB. Cmted w/125 sxs Class B, 2% CC, plug down @ 11:15 PM
3/4/75. Circ. approx. 25 sxs cmt.
- 3-5-75 Drlg. w/wtr @ 1118' (960'). 669' @ 1/2°.
- 3-6-75 Drlg. @ 1705' (587'). Drlg. w/wtr.
- 3-7-75 Drlg. @ 2241' (536') Sd & Sh. MW 9., Visc 39, WL 14.2,
FC 2/32nds. 1 1/2° @ 1711'.
- 3-8-75 Drlg. @ 2625' (384'). Sd & Sh. MW 10.3, Visc 41,
WL 8.4.
- 3-9-75 Drlg. @ 2805' (180') Sd & Sh. MW 12.1, Visc 45, WL 8.6.
- 3-10-75 Drlg. @ 2988' (183') Sd & Sh. MW 12, Visc 61, WL 8.6.
- 3-11-75 Drlg. @ 3080' in sd & sh (92'). MW 12.1, Visc 49.0, WL 8.0.
1° @ 2988' & 1 1/2° @ 3080'.
- 3-12-75 Drlg. 3080'. W.O.C.

- 3-13-75 Drlg. @ 3785' (705'). Sd & Sh. $1\frac{1}{2}^{\circ}$ @ 3175', drlg w/gas. Ran 80 jts, 7", 23#, J-55 LT&C (3088.64'), csg landed @ 3077' KB, (with float collar & guid shoe.) Centralizers: 2456', 3065', 1583', 3025', 1541', 2954', 2744' & 2619'.
- 3-14-75 Drlg. @ 4553' (768'). Drlg. w/gas. $1\frac{1}{2}^{\circ}$ @ 4160'.
- 3-15-75 Drlg. @ 5275' (722'). Sd & Sh. Drlg w/gas. 2° @ 4644' & $1\frac{3}{4}^{\circ}$ @ 5138'. Flow test: 4644' 200 MCF/D, 4986' 200 MCF/D, 5138' 309 MCF/D.
- 3-16-75 TD 5310' (35'). Drld to TD w/gas. Test @ 5310' had 350 MCF/D. Ran O. H. Logs. RU to run & cmt $4\frac{1}{2}$ " liner, liner set from 2880' to 5306'. Cemented w/245 sxs cmt. Circ 40 sxs. Plug down 1:20 AM 3/16/75.
- Released Rig @ 6 AM 3/16/75.
- 3-17-75 - W. O. C. U.
4-9-75
- 4-10-75 - MI & RU Completion Unit. SD for rig repairs.
4-14-75
- 4-15-75 Installed BOP. RU bit, sub & tbg, GIH to PBTD of 5264'.
- RU Western, circulated hole clean, tested csg, broke @ 1500 psi. Pumped 2 BPM @ 1200 psi. POOH & RU Dresser Atlas, ran Correlation Log & collar locator. GIH w/ $4\frac{1}{2}$ " Baker Pkr & tbg to 2904. Pressured up on $4\frac{1}{2}$ ", 2 BPM @ 1200 psi. Tested 7" csg & liner top, held OK. SDON. Will test liner to locate hole.
- 4-16-75 Started testing liner w/pkr, located leak between 5149-61'. POOH w/tbg & pkr. RU Dresser Atlas & ran Cement Bond Log from 5258' to 3500'; good bond indicated throughout the interval. Ran Baker Model N Bridge Plug & set @ 5140'. Pressured tested to 2000 psi & held. Perf. 5016'-26', 5050'-60' & 5107'-17' w/1 JHPF, 10 holes per zone (600 Go-Devil, 0.6" hole, decentralized). GIH w/2" tbg, Baker RBP & Pkr. Broke perf as follows (bottom up) w/250 gal acid per zone:
- a. 5126'-5065' 2400 brkdn, 7 BPM & 2200 psi
 - b. 5050'-60' no definite brkdn, $7\frac{1}{2}$ BPM & 2000 psi.
 - c. 5107'-17' 2650 brkdn, 6 BPM & 2000 psi.

4-17-75

POOH w/tbg, RBP & Pkr. RU Western to frac w/60,000 gal. (30# gel/1000 gal, 2 gal FS-1/1000 gal in pad & 100 mesh carrying volumes, 20# fluid loss/1000 gal in pad & 20/40 mesh carrying volumes) as follows:

- a. 5000 gal pad
 - b. 5000 gal w/3pspg, 100 mesh
 - c. 10,000 gal w/avg. of 2 pspg, 20/40
 - d. dropped 10 balls
 - e. repeated (a) thru (d)
 - f. dropped 10 balls
 - g. repeated (a) thru (d)
 - h. dropped 10 balls & 200# benzoic acid flakes.
- 35 BPM @ 100 psi throughout. ISIP Vacuum.

GIH w/RBP & tbg, set RBP @ 4938' & tested csg, held 2000 psi. POOH w/tbg. RU Dresser Atlas & perf. @ 4777'-87' (10 holes) 4806'-16', (10 holes), 4864'-70' (6 holes), 4874'-78' (4 holes), 4888'-98' (10 holes.). GIH w/tbg & pkr to 4896' & spotted 250 gal 15% HCL, pulled pkr to 4662' & set. RU Western to break perfs, pressured to 3500 psi w/out breaking down. Left 3000 psi on tbg & SDON.

4-18-75

RU Western & brokedown perfs @ 3700 psi, pumped 800 gal 15% HCL & 50 balls, no ball off. Pumped treated wtr & dropped 40 balls, no ball off. Moved pkr to 4840', pumped treated wtr w/25 balls & balled off. Moved pkr to 4660', pumped treated wtr w/25 balls plus 25 balls & balled off. Pulled tools into 7" & SDON.

Will Frac the Menefee this AM.

4-19-75

POOH w/tbg & tools. RU Western to frac Menefee zone w/80,000 gal (frac fluid 30# gel/1000 gal, 2 gal FS-1/1000 gal in pad and 100 mesh carrying volumes, 20# fluid loss/1000 gal in pad and 20/40 mesh carrying volumes).

- a. 5000 pad
- b. 5000 w/3 pspg, 100 mesh
- c. 10,000 w/avg 2 pspg, 20/40
- d. dropped 10 balls
- e. repeated (a) thru (e)
- f. repeated (a) thru (e)
- g. repeated (a) thru (e), balled off.

1st Stage - 35 BPM & 250 psi.

2nd Stage - 35 BPM & 500 psi.

3rd Stage - 35 BPM & 750 psi

4th Stage - 35 BPM & 750 psi.

(cont'd on next page)

4-19 (cont'd) RU Dresser Atlas, perf Cliff House zone 4464'-66' (2 holes), 4570'-72' (2 holes), 4612'-14' (2 holes), 4621'-25' (4 holes), 4632-42' (10 holes), 4654'-56' (2 holes) & 4664'-72' (8 holes), total of 30 holes w/0.6", Burr-Free holes.

GIH w/RBP, Pkr & tbg to break perfs. Set RBP @ 4726'. PU and spotted 200 gal, 15% HCL, pulled pkr to 4355' & brokedown perfs @ 1500 psi. Pumped 800 gal 15% HCL w/30 balls; good ball action. Pumped treated wtr & 32 balls, good ball action w/max pressure of 3400 psi @ 3 BPM. Knocked balls off perfs w/pkr & POOH w/tbg & pkr. RU to frac w/60,000 gal (same fluid as above)

- a. 5000 gal
- b. 5000 w/3 pspg, 100 mesh
- c. 10,000 w/avg. 2 pspg, 20/40
- d. dropped 10 balls
- e. (a) thru (d), followed by 250 gal 15% HCL
- f. repeated (a) thru (c).

ISIP 100 psi, 5" SIP 0

1st Stage - 35 BPM & 500 psi

2nd Stage - 35 BPM & 775 psi

3rd Stage - 35 BPM & 1500 psi.

SDON.

4-20-75 RU to blow wtr from hole. GIH w/retrieving tool & tbg, blew sand & balls off RBP. Unseated RBP & POOH. GIH w/retrieving Tool & tbg, blew hole w/drill gas overnight.

4-21-75 Reversed out w/drill gas, unseated RBP. POOH, did not have RBP. GIH w/retrieving tool & tbg, pushed RBP to btm & latched on. Pulled RBP into 7" csg; left well blowing to pit. SDON.

4-22-75 Finished POOH w/tbg & RBP. GIH w/2" tbg as follows:

1 perf. jt (10 rd NUE)	33.22'
Baker "F" Nipple (ID 1.81")	1.00'
21 jts, 10rd NUE	697.76'
141 jts, 8rd EUE	4363.95'
	5095.93'

Tbg landed @ 5107' KB.

Installed wellhead, pumped out plug & blew to pit.

Rigged down Completion Unit. SDON. This AM, CP 380 psi & TP 370 psi, after 12 hrs shut in time, opened to pit & tbg blew down. Hooked up compressor & blew wtr to pit, left blowing to pit.

4-23-75 Blew to pit at estimated rate of 7000 MCF/D, CP 340 psi, SI. Will leave SI for 7 days, then run State Flow Test.

4-24-75 24 Hr. SITP 380 psig.
4-25-75 24 Hr. SITP 380 psig.
4-26-75 - SI for State Test.
4-28-75
4-29-75 6 Day SITP & SICP - 385 psig.
4-30-75 Results of 3 Hr. State Flow Test

<u>CHOKE</u>	<u>TIME</u>	<u>TP (psig)</u>	<u>CP (psig)</u>	<u>Rate (MCF/D)</u>
SI	7 Days	386	386	
3/4"	1 hr.	137	362	2255
3/4"	2 hr.	137	355	2255
3/4"	3 hr.	134	351	2210

AOF 8420 MCF/D.

5-1-75

FINAL REPORT

SPUD DATE 3-3-75, TD 5310', FIELD NAME Blanco, PROD. FORM. Mesaverde, PERF. INTERVAL 4464'-5117', INITIAL POTENTIAL 8420 MCF/D, AOF, Flowing, NAME OF PURCHASER COND. Caribou, NAME OF PURCHASER, GAS El Paso Natural Gas Co., PRICE OF COND. \$10.30, PRICE GAS \$.51 + BTU adjustment.

FINAL REPORT

NO. OF COPIES RECEIVED	6
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NO. 412 M & M
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NEW MEXICO OIL CONSERVATION COMMISSION
WELL COMPLETION OR RECOMPLETION REPORT AND LOG
1975

Form C-105
Revised 1-1-65

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

AMA. PROD.

1a. TYPE OF WELL OIL WELL ☐ GAS WELL ☒ DRY ☐ OTHER ☐				7. Unit Agreement Name											
b. TYPE OF COMPLETION NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ OTHER ☐				8. Form or Lease Name State Com I											
2. Name of Operator Mesa Petroleum Co.				9. Well No. #5A											
3. Address of Operator P. O. Box 2009 Amarillo, Texas				10. Field and Pool, or Wildcat Blanco (Mesaverde)											
4. Location of Well UNIT LETTER <u>F</u> LOCATED <u>1850</u> FEET FROM THE <u>North</u> LINE AND <u>1850</u> FEET FROM THE <u>West</u> LINE OF SEC. <u>36</u> TWP. <u>31N</u> RGE. <u>9W</u> NMPM				12. County San Juan											
15. Date Spudded 3-3-75		16. Date T.D. Reached 3-15-75		17. Date Compl. (Ready to Prod.) 4-23-75		18. Elevations (DF, RKB, RT, GR, etc.) 5981' K.B.		19. Elev. Casinghead 5969'							
20. Total Depth 5310'		21. Plug Back T.D. 5264'		22. If Multiple Compl., How Many		23. Intervals Drilled By Rotary Tools ☒ Cable Tools ☐		25. Was Directional Survey Made Yes							
24. Producing Interval(s), of this completion - Top, Bottom, Name 4464' - 5117' Mesaverde								27. Was Well Cored No							
26. Type Electric and Other Logs Run Density & Electric															
28. CASING RECORD (Report all strings set in well)															
CASING SIZE		WEIGHT LB./FT.		DEPTH SET		HOLE SIZE		CEMENTING RECORD		AMOUNT PULLED					
10-3/4"		40.5		158		13-3/4"									
7"		23		3077		8-3/4"		409 sx							
4-1/2"		10.5		5306		6-1/4"		245 sx							
29. LINER RECORD										30. TUBING RECORD					
SIZE		TOP		BOTTOM		SACKS CEMENT		SCREEN		SIZE		DEPTH SET		PACKER SET	
4-1/2"		2880'		5306'		245				2-3/8'		5107		None	
31. Perforation Record (Interval, size and number) 0.6" holes, 1 JHPF, 4464'-66', 4570'-72', 4612'-14', 4621'-25', 4632'-42', 4654'-56', 4664'-72', 4777'-87', 4806'-16', 4864'-70', 4874'-78', 4888'-98', 5016'-26', 5050'-60', 5107'-17'										32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.					
										DEPTH INTERVAL		AMOUNT AND KIND MATERIAL USED			
										5016'-5117'		60,000 gal gelled wtr, 105,000			
										4777'-4898'		80,000 gal gelled wtr, 140,000			
										4464'-4672'		60,000 gal gelled wtr, 105,000			
33. PRODUCTION															
Date First Production 4-23-75				Production Method (Flowing, gas lift, pumping - Size and type pump) Flowing to clean up well bore						Well Status (Prod. or Shut-in) Shut in for state test					
Date of Test		Hours Tested 8 hrs.		Choke Size		Prod'n. For Test Period		Oil - Bbl. 2640		Gas - MCF		Water - Bbl.		Gas - Oil Ratio	
Flow Testing Press.		Casing Pressure		Calculated 24-Hour Rate		Oil - Bbl.		Gas - MCF Est. 8,000		Water - Bbl.		Oil Gravity - API (Corr.)			
34. Disposition of Gas (Sold, used for fuel, vented, etc.) Vented												Test Witnessed By			
35. List of Attachments															
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>R. J. Flaker</u>				TITLE <u>Prod. Engr.</u>				DATE <u>4-28-75</u>							

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NEW MEXICO OIL CONSERVATION COMMISSION

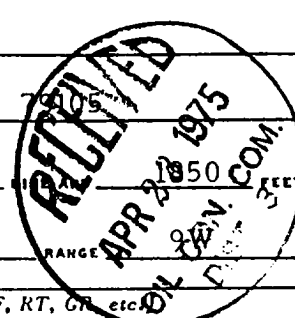
Form C-103
Supersedes Old
C-102 and C-103
Effective 1-1-65

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

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 ☒ GAS WELL ☐ OTHER		7. Unit Agreement Name
2. Name of Operator Mesa Petroleum Co.		8. Farm or Lease Name State Com I
3. Address of Operator P. O. Box 2009 Amarillo, Texas 79105		9. Well No. #5A
4. Location of Well UNIT LETTER <u>F</u> <u>1850</u> FEET FROM THE <u>North</u> THE <u>West</u> LINE, SECTION <u>36</u> TOWNSHIP <u>31N</u> RANGE <u>9W</u> NMPM.		10. Field and Pool, or Wildcat Blanco (Mesaverde)
15. Elevation (Show whether DF, RT, GN, etc.) 5969' GL		12. County San Juan



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 ☐ REMEDIAL WORK ☐ COMMENCE DRILLING OPNS. ☐ CASING TEST AND CEMENT JOB ☒ OTHER <u>Production Casing</u>

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.

TD 5310'. Ran & cmt 4-1/2" liner; liner set from 2880' to 5306'. Cmted w/245 sx cmt. Circulated 40 sx.

RECEIVED

MAY 5 1975

AMA. PROD.

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

SIGNED R. J. Flaker TITLE Prod. Engr. DATE 4-23-75

APPROVED BY [Signature] TITLE SUPERVISOR DIST. 13 DATE APR 28 1975

CONDITIONS OF APPROVAL, IF ANY:

3 states

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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.	

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 - A" (FORM C-101) FOR SUCH PROPOSALS.)

1. OIL WELL ☐ GAS WELL ☒ OTHER ☐		7. Unit Agreement Name
2. Name of Operator Mesa Petroleum Co.		8. Farm or Lease Name State Com I
3. Address of Operator P. O. Box 2009 Amarillo, Texas 8105		9. Well No. #5A
4. Location of Well UNIT LETTER F, 1850 FEET FROM THE North LINE AND 1850 FEET FROM THE West LINE, SECTION 36 TOWNSHIP 31N RANGE 9W NMPM.		10. Field and Pool, or Wildcat Blanco (Mesaverde)
15. Elevation (Show whether DF, RT, GR, etc.) 5969' GL		12. County San Juan

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 ☐	OTHER Intermediate Casing ☒

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.

Ran 80 jts, 7", 23#, J-55 LT&C (3088.64'), csg landed @ 3077' KB (w/float collar & guide shoe.) Centralizers: 2456, 3065, 1583, 3025, 1541, 2954, 2744, 2619'.

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APR 5 1975

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

SIGNED R. J. Flaker TITLE Prod. Engr. DATE 4-23-75

APPROVED BY [Signature] TITLE SECRETARY DATE APR 26 1975

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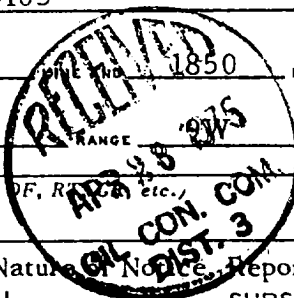
NEW MEXICO OIL CONSERVATION COMMISSION

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.	

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 -1" (FORM C-101) FOR SUCH PROPOSALS.)

1. OIL WELL ☐ GAS WELL ☒ OTHER-	7. Unit Agreement Name
2. Name of Operator Mesa Petroleum Co.	8. Farm or Lease Name State Com I
3. Address of Operator P. O. Box 2009 Amarillo, Texas 79105	9. Well No. #5A
4. Location of Well UNIT LETTER F, 1850 FEET FROM THE North THE West LINE, SECTION 36 TOWNSHIP 31N RANGE 9W5 NMPM.	10. Field and Pool, or Wildcat Blanco (Mesaverde)
15. Elevation (Show whether OF, R, etc.) 5969' GL	12. County San Juan



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 OPWS. ☐	PLUG AND ABANDONMENT ☐
PULL OR ALTER CASING ☐	OTHER ☐	CASING TEST AND CEMENT JOBS ☐	
		OTHER Surface Casing ☒	

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.

Spudded 4:00 P. M. 3-3-75. Ran 10-3/4" casing. Set @ 158'. Cmt. circulated.

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MAY 5 1975

AMA PROD.

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

SIGNED R. J. Flaker R. J. Flaker TITLE Prod. Engr. DATE 4-23-75

APPROVED BY [Signature] TITLE SUPERVISOR DIST. #3 DATE APR 28 1975

CONDITIONS OF APPROVAL, IF ANY:

3 - State



Acoustic Cement Bond Log Signature

FILE NO. FM-5146

WELL FILE COMPANY MESA PETROLEUM COMPANY

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WELL STATE COMM. I # 5A

MAY 1 1975

FIELD BLANCO MESAVERDE

AMA. PROD.

COUNTY SAN JUAN

STATE N. MEX.

LOCATION:

Other Services

**DO NOT REMOVE
FROM WELL FILE**

SEC 36 T431N RGE 9W

Permanent Datum G.L.

Elev. 5969

Log Measured from K.B.

12.0 Ft. Above Permanent Datum

Drilling Measured from K.B.

Elevations:

KB 5981

DF

GL 5969

Date	4-15-75	CSG. RECORD	Surface	Protection	Production	Liner
Run No.	ONE	Size	10 3/4	7	4 1/2	
Depth-Driller	5270	Wt./Ft.	32	23	10 1/2	
Depth-Logger	5260	Grade	-	J 55	CW 55	
Bottom Logged Int.	5257	Type Joint	8R	8R	8R	
Top Logged Int.	3700	Top	SURF	SURF	2880	
Ft. Measured	1557	Bottom	158	3080	5306	
Type Fluid in Csg.	WATER	PRIMARY CEMENTING DATA				
Density of Fluid		Type Cement	B	B	50-50-POS	
Fluid Level	FULL	Vol. of Cement	125	309	245	
Max. Temp. Deg. F.		Additive		SEE REMARKS		
Tool Series No.	1408	% Additive				
Tool Diam.	3 5/8	Retarder				
Standoff Size		% Retarder	-			
Logging Speed	50	Slurry Wt.	-			
R/A Log Type		Water Loss	-	8.0		
T.C.		Drig. Mud Type	-	FRESH H ₂ O	GAS	
Sens. Setting		Drig. Mud Wt.	-	12.1		
API Units/Div.		PRIMARY CEMENTING PROCEDURE				
Truck or Unit No.	3024	Started Pumping	11:35	DATE 3-15	Preceding Fluid	GELI H ₂ O
Location	FARM	Plug on Bottom	1:20	3-16	Vol. 20	Bbls.
Opr. Rig Time	1 1/2	Pres. Released	1:20	3-16	Returns: (Full) Partial None	
Recorded by	CLAY	Started Bond Log	14:45	4-15	Pipe Rot. During Pumping: Yes (No)	
Witnessed by	ARCHER	Finished Bond Log	16:00	4-15	Pipe Rot. After Plugdown: Yes (No)	

REMARKS	6% GELL. -7"	4 1/2
	12 1/2 LB. GILSONITE	2% GELL
	2% CACL.	.6 OF 1% - D-31
	1/8 SACK CELLOFLAKE	12 1/2 LB. GILSONITE
		1/4# CELLOFLAKES PER. SACK

NO REPEAT SECTION TOOL PULLED TIGHT.

SQUEEZE JOB DETAIL					Centralizer Depths	Scratcher Depths
Squeeze No.	1	2	3	4		
Date						
Depth Interval						
Type Cement						
Vol. of Cement						
Additive						
% Additive						
Retarder						
% Retarder						
Slurry Wt.						
Preceding Fluid						
Vol. Preceding Fluid						
Breakdown Pressure						
Max. Pres. — Stage 1						
" " " 2						
" " " 3						
Final Max. Pressure						
Time Brkdn. (hr.-date)						
Pumping Stopped						
Pres. Released						
Started Bond Log						
Finished Bond Log						
Pressure read at: Surface _____ Bottom Hole _____						
SEQUENCE OF CEMENT BOND LOGS				AVERAGE WELL DRIFT		
Log run following:		CBL Run	CBL Run	_____ ° from _____ to _____		
Surface Casing Cement		Squeeze No. 1		_____ ° from _____ to _____		
Protection Casing Cement		Squeeze No. 2		_____ ° from _____ to _____		
Production Casing Cement		Squeeze No. 3				
Liner Cement		Squeeze No. 4				

	DEPTH	COMPRESSION WAVE AMPLITUDE
		AMPLITUDE INCREASES →
		PERCENT UNBONDED PIPE SIGNAL

100
MICRO SEC

PERCENT UNBONDED PIPE
SIGNAL

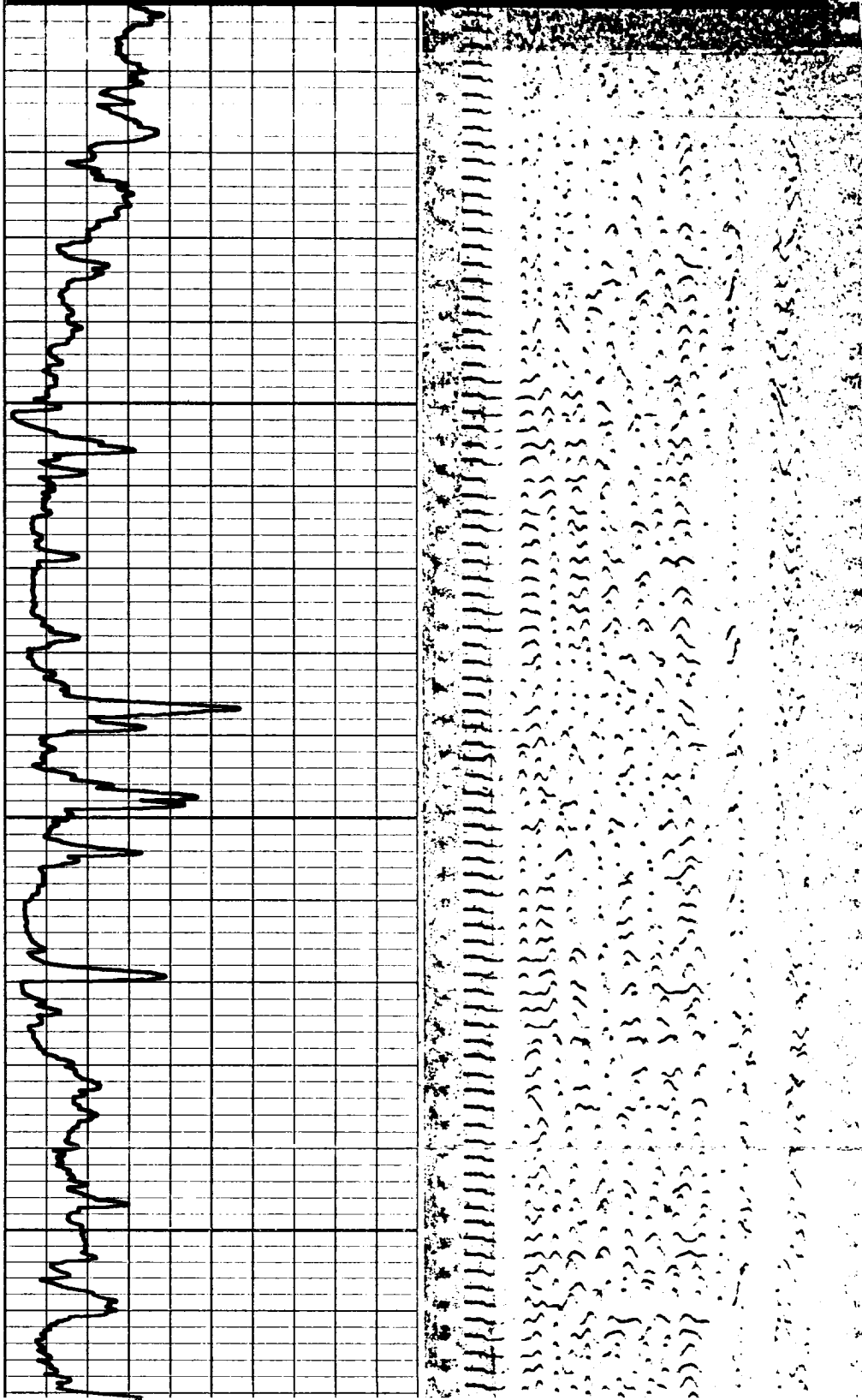
100
MICRO SEC

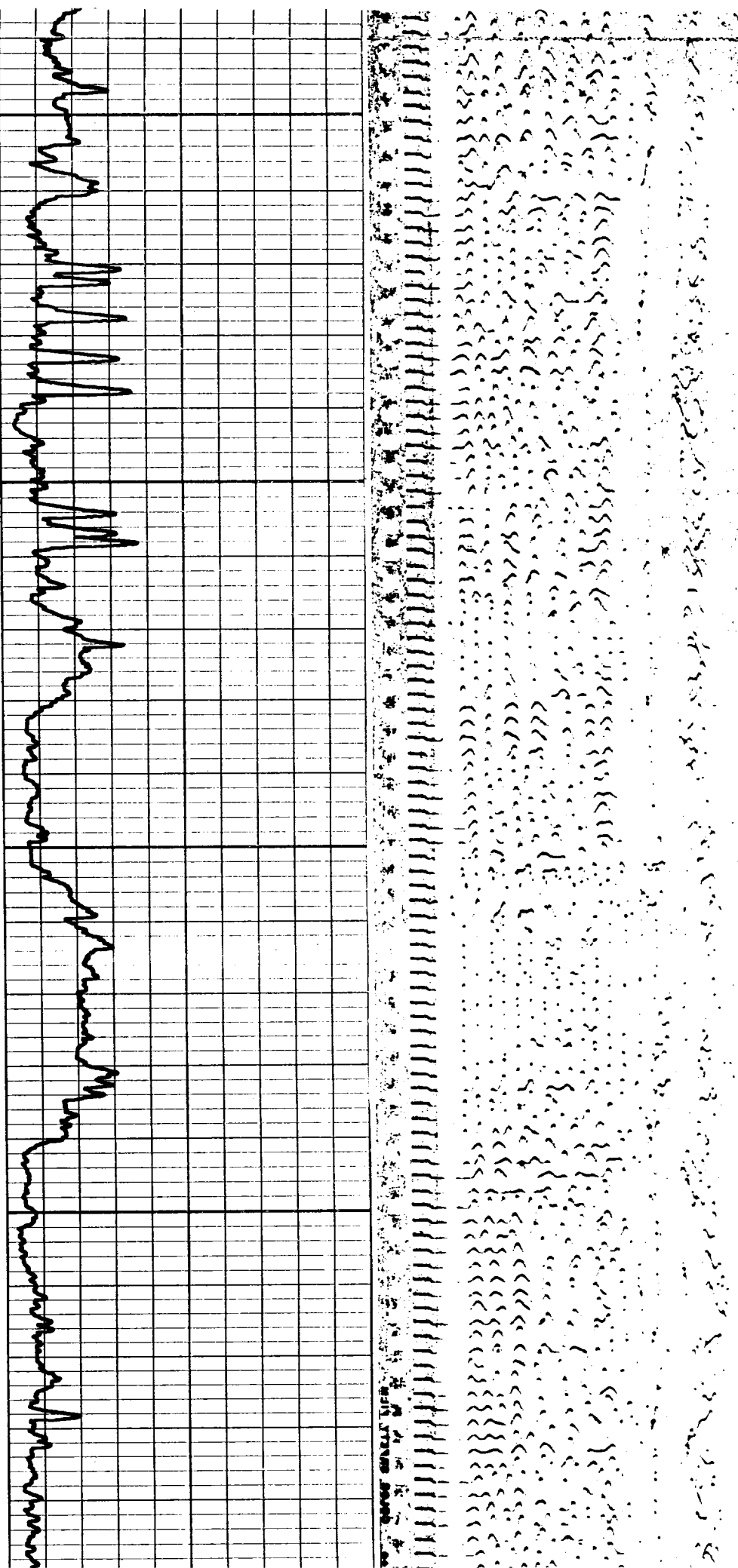
1.0 6.4 40 100 200 1200
2.5 16

5"=100'

00

3800





3900

4000

SAN JUAN OPERATIONAL UNIT
STATE COM I #5A; ESTIMATED TOC
ASSUMES 25% CEMENT LOST TO FORMATION

VOLUME (CUBIC FEET) = NUMBER SACKS * CUBIC FEET/S
AREA (SQ. FT.) = $\text{PI}((\text{HOLE SIZE}/2)^2 - (\text{CASING SIZE}/2)^2)/144$
HEIGHT (FEET) = VOLUME (CU. FT.)/AREA (SQ. FT.) * .75 (SLURRY EFFICIENCY)
ESTIMATED TOC (FEET) = DEPTH (FEET) - HEIGHT (FEET)

I: SURFACE CASING:

SIZE: 10.750 "
HOLE: 13.750 "
GRADE: N/A
WEIGHT: 40.50 #/FT
DEPTH: 158 '
TOC: CIRC '
CEMENT: 125 SACKS
1.18 CUFT/SX
- SACKS
- CUFT/SX

VOLUME CU. FT.	AREA SQ. FT.	HEIGHT FEET
LEAD	0.401	276
147.5		EST. TOC FEET
TAIL		(118)
0.0		

IV: 2ND DV TOOL:

TOC: - '
CEMENT: - SACKS
- CUFT/SX
- SACKS
- CUFT/SX

VOLUME CU. FT.	AREA SQ. FT.	HEIGHT FEET	EST. TOC FEET
LEAD	0.150	0	0
0.0			
TAIL			
0.0			

III: 1ST DV TOOL:

TOC: - '
CEMENT: - SACKS
- CUFT/SX
- SACKS
- CUFT/SX

VOLUME CU. FT.	AREA SQ. FT.	HEIGHT FEET	EST. TOC FEET
LEAD	0.150	0	0
0.0			
TAIL			
0.0			

II: INTERMEDIATE OR PRODUCTION CASING:

SIZE: 7.000 "
HOLE: 8.750 "
GRADE: J-55
WEIGHT: 23.00 #/FT
DEPTH: 3,077 '
TOC: CIRC '
CEMENT: 409 SACKS
EST. 1.18 CUFT/SX
- SACKS
- CUFT/SX

VOLUME CU. FT.	AREA SQ. FT.	HEIGHT FEET	EST. TOC FEET
LEAD	0.150	2,407	670
482.6			
TAIL			
0.0			

NONE
2ND DV
TOOL

III

NONE
1ST DV
TOOL

II

2,880

TOL:

V V: PROD.
LINER:

SIZE: 4.500 "
HOLE: 6.250 "
GRADE: CW-55
WEIGHT: 10.50 #/FT
DEPTH: 5,306 '
TOC: 2,875 '
CEMENT: 245 SACKS
EST. 1.18 CUFT/SX
- SACKS
- CUFT/SX

VOLUME CU. FT.	AREA SQ. FT.	HEIGHT FEET	EST. TOC FEET
LEAD	0.103	2,112	3,194
289.1			
TAIL			
0.0			

5,264

PBTD

5,310

TD