LA PLATA GATHERING SYSTEM, INC.

1940 MERCANTILE DALLAS BUILDING

DALLAS 1, TEXAS

July 1, 1963

1-19 well file

Mr. Emory Arnold
New Mexico Oil Conservation Commission
Aztec, New Mexico

Dear Emory:

Enclosed herewith are three copies each of both well data and completion details on our San Juan 32-5 No. 1-19 and 1-X-19 wells. You requested copies of these data in our meeting of June 19, 1963.

With best personal regards, I am

Yours very truly,

Walter M. Kilgo

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WMK:lc
Encls.

SAN JUAN UNIT 32-5 #1X-19

WELL DATA & COMPLETION DETAIL:

Location: 1,680' S, 734' E., Sec. 19, 32 N., 5 West, Rio Arriba County, N. M.
Elevation: 6299.5 GL., 6310.5 KB

8/25/62: Spudded well @ 8:00 PM 8/24/62
Reaming hole 15" to 20"

8/26/62: Set conductor pipe @ 105'
3 jts 16" 65# H-40 STC. Landed @ 105'.
Cemented with 135 sacks regular 2% CaCl 2.
Slurry weight: 15.6#/gal.
Circulated approximately 50 sacks good cement.
WOC @ 2:20 PM 8/25/62

8/30/62: Casing Detail: 32 jts of 10 3/4", 40.5#, J-55 STC casing
Ran guide shoe on bottom joint and float collar 30' off bottom.

Landed Depth: 977'.

Cement Detail: 600 sacks regular cement w/4% gel (slurry weight 14.2#/gal), followed by 100 sacks regular cement w/2% CaCl 2 (slurry weight 15.6#/gal.) Displaced cement with 93 BW. Bumped plug with 1500 psi. Float held. Circulated approximately 200 sacks cement. WOC @ 3:45 PM 8/29/62.

9/3/62: DST #1: Interval: 2260-2370'.

Ran single packer with jars, circulation sub safety joint. Took 30 min ISIP. Opened tool @ 11:55 AM 9/2/62. Took 30 min FSIP Had a very slight blow continuing thru test, but got no gas to surface. Closed tool after one hour. Recovered 750' water with slight sulfur smell 20' drilling mud.

BHT:	105°	
IHH:	1005	
ISIP:	960	Max
IFP:	70	
FFP	335	
FSIP:	920	Max
FHH:	990	

Depth: 2594'. Prep to run DST #2 in interval 2420-2594'

WELL DATA & COMPLETION DETAIL:

9/4/62: DST #2: Interval 2320-2594'

Ran same equipment as DST#1. Took 30 min ISIP. Opened tool with good blow. Gas to surface in 2 minutes with volume too small to measure. Flowed well one hour. Took 30 minutes FSIP. Recovered 210' W and GCM.

BHT:	100°	
IHH:	1135	
ISIP:	845	Not Maximum
IFP:	55	
FFP:	100	
FSIP:	630	Not Maximum
FHH:	1120	

Present Depth: 2723'. Mud: 9.4#, 50 sec.

9/6/62: DST #3: Interval 2890-3040'

Took 30 min ISIP. Opened tool with immediately strong blow. Gas to surface in one minute. Flowed well one hour and took following gauges:

3 Min:	750 MCFD
15 Min:	220 MCFD
30 Min:	TSTM
60 Min:	TSTM

Shut well in for FSIP. Driller picked up on pipe by mistake releasing packer, and ruining final shut-in test. Circulating sub opened while coming out of hole, so did not get any recovery.

BHT:	120°	
IHH:	1395	
ISIP:	1135	(Not Max)
FHH:	1395	
IFP:	205	
FFP:	220	
FSIP:	585	(8 min)

9/10/62: Rw for water sample taken on DST#1 2.4 @ 75°.

9/18/62: Depth 5751' Ran ES-I & GR Density Logs.

Ran 7 5/8" casing and cemented same.

Casing Detail: 164 jts 7 5/8", 26.40#, N 80 LTC casing as follows:

1.00	Guide Shoe
33.37	Shoe Jt.
1.50	Auto-Fill Float Collar
5718.43	163 jts Casing
5754.30	Total String
3.30	Above KB
5751.00	Landed Depth

Tacked welded bottom 3 collars and Bakerlocked pins. Ran 4 centralizers thru MV section.

Cement Detail: 200 sacks 4% gel cement @ 14.2 #/gal. Displaced cement w/274 BW, which is 4 bbls more than calculated displacement. Did not bump plug. Float held. Had complete returns. WOC @ 9:45 AM 9/18/62.

9/27/62: DST #4 Interval 7070-7172'

Packer failed on first setting, but held second time. Opened tool with weak blow.

Tool open one hour. No gas to surface. Took 30 min SI. Recovered 620' drilling mud.

IHH:	4170
FHH:	4170
IFP:	220
FFP:	235
FSIP:	235

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WELL DATA & COMPLETION DETAILS

10/11/62: Liner Detail: 72 jts 5 1/2", 17# J-55 casing with guide shoe and float collar. Ran centralizer and scratchers thru Dakota. Ran Burns liner hanger on top of joint.

Total Length of Equipment	2309'
Landed Depth	8036'
Top of Liner	5727'

Liner hanger has lead seal.

Cement Detail 175 sx 4% gel cement with 25# gils/sx 12.7 #/gal slurry weight) and 50 sx cement with 9% Latex (15.2#/gal). Displaced cement w96 BW. Float held. Had complete returns. Reversed out 19 xx cement from top of liner and displaced hole with water. WOC @ 4:30 AM 10/11/62.

10/12/62: Released rig @ 3:00 PM. Will drop from daily report until competion begins.

10/23/62: Moving in completion unt.

10/25/62: Completion Unit blew a head gasket before reaching location, and had to shut down for repairs. Should start completion work today.

10/26/62: RU completion unit. Now going in hole with 6 1/4" bit on EUE tubing to clean out to top of liner.

10/27/62: PBTD 7950'. CO with 6 1/4" bit to top of liner. Found stringy cement beginning approximately 300' above top of liner.

Tested casing to 4000 psi, and had no leaks.

Ran 4 3/4" bit and cleaned out liner to PBTD of 7950'. Top of liner was clean, but found small stringers of cement down thru liner. Drilled 200' of cement in bottom of liner. Now prep to perf and frac.

10/28/62: ***

WELL DATA & COMPLETION DETAILS:

10/28/62: PBTD 7950'

Dakota Perfs: 4 jet shots /ft 7794-98' (4'); 7802-08' (6') 7842-74' (32'). Depths from GR density log.

Dakota Frac: 400 HHP 25,000# 40-60 sand followed by 40,000# 20-40 sand. 65,000 gal water w/1% CaCl 2 and 10# J-2/1000 gals.

BDP: 3800
Max Pressure: 3800
Average Rate: 50 BPM 3300 psi
ISIP: 3200
10 Min SIP: 2900

Set top drillable bridge plug @6020'. Tested top of plug to 2000 psi., no leaks.

Mesa Verde Perfs: 2 jet shots /ft. 5704'-16'; 5648-54' 5566-96'; 5516-25'; 5476-86'; 5422-50'; 5378-89'. (GR density log)

Mesa Verde Frac: 4000 HHP 80,000 gal water and 80,000 20-40 sand.

BDP: 1000
Max Press: 1600
Average Rate: 85 1/2 BPM @ 1100 psi
ISIP: 900
SIP: 500

Drop 110 balls as follows: 50 balls at end of 30,000# sd. Pressure arose from 1000 to 1200 psi. 30 balls at end of 50,000# sd. Pressure went 1400. 30 balls at end of 60,000# sand. Pressure went to 1600# and broke back to 1300#.

10/29/62: Went in hole to clean out. Found top of sand approximately 5700'. Attempted to circulate sand out with water, but Mesa Verde took fluid and circulation could not be gained. Rigged up gas line to clean up and drill plugs with gas. Now CO sand at depth of 5800'. MV formation is flowing large slugs of water and some gas. Estimated volume of gas: 500 MCFD

10/30/62: CO to top of bridge plug: 12 hour gauge on MV 600 MCFD
18 hour gauge on MV 1 1/2#

Drilled Dakota plug. Dakota was not pressured up under plug. Dakota water came in and logged off well. Pushed plug to 7910'. Pulled up hole and started blowing well down. 6 hour gauge on MV and Dakota: 850 MCFD

SAN JUAN UNIT 32-5 #1X-19:

WELL DATA & COMPLETION DETAIL

10/31/62: 18 hour gauge: 900 MCFD
24 hour gauge: 960 MCFD

11/1/62: Gauged well at 1200 MCFD. Water had decreased sharply. Came out of hole with tubing. Now prep to set production packer and complete well.

11/2/62: Set Baker Model "D" production packer @ 7780' with wire line. Ran and landed Dakota and Mesa Verde tubing.

Dakota Tubing Detail: 246 jts., 2 3/8", 4.7#, J-55 EUE tbg and 1 10' pup jt. Ran pump out plug on bottom jt to act as tubing stop. Packer seal assembly has four seal units. A 5' open ended flow tube was run beneath the packer. Hydro tested to 5500 psi and had no leaks.

Mesa Verde Tubing Detail: Ran 166 jts 1 1/2" Jal Con weld "50" tubing. Tubing is open ended with swab stop on bottom joint. Landed depth: 5385'

Now NU wellhead.

11/3/62: Cleaning up well to atmosphere. Released completion rig.

11/4/62: Cleaning up to atmosphere. Gauged MV @ 1640 MCFD
Dakota flowing intermittent heads of gas and water.

11/5/62: Cleaning up to atmosphere. MV: 1325 MCFD and spray of water

DAKOTA: Making a steady stream of gas and water. Gas Volume: TSTM

11/6/62: Cleaning well to atmosphere.

11/7/62: Gauged MV @ 1000 MCFD
Shut MV in prior to potential test

Gauged Dakota @ 150 MCFD
* Still making spray of water. Continuing to clean up to atmosphere.

11/29/62: Potential Test: Q: 2673 MCF/D
(MV) Aof: 4136 MCF/D

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(**11/22/62: Test flowed well thru 2" line for 3 hours, and gauged gas with pitot tube. MV: 2860 MCFD Dakota: Logged off.)