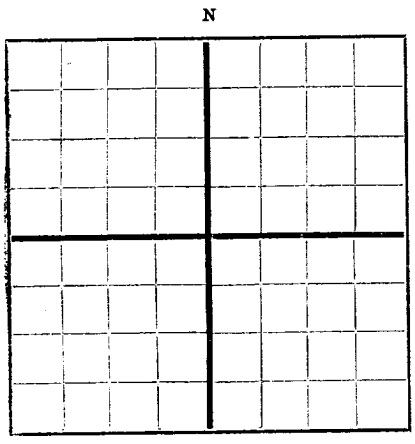
FORM C-105



AREA 640 ACRES
LOCATE WELL CORRECTLY

NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

WELL RECORD

Mail to Oil Conservation Commission, Santa Fe, New Mexico, or its proper agent not more than twenty days after completion of well. Follow instructions in the Rules and Regulations of the Commission. Indicate questionable data by following it with (?). SUBMIT IN TRIPLICATE. FORM C-110 WILL NOT BE APPROVED UNTIL FORM C-105 IS PROPERLY FILLED OUT.

.....
Company or Operator — Address

.....Well No.....in.....of Sec....., T.....
Lease

R....., N. M. P. M., ...Field, ...County.

Well is.....feet south of the North line and.....feet west of the East line of.....

If State land the oil and gas lease is No.....Assignment No.....

If patented land the owner is....., Address.....

If Government land the permittee is....., Address.....

The Lessee is....., Address.....

Drilling commenced.....19..... Drilling was completed.....19.....

Name of drilling contractor....., Address.....

Elevation above sea level at top of casing.....feet.

The information given is to be kept confidential until.....19.....

OIL SANDS OR ZONES

No. 1, from.....to..... No. 4, from.....to.....

No. 2, from.....to..... No. 5, from.....to.....

No. 3, from.....to..... No. 6, from.....to.....

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....to.....feet. .....

No. 2, from.....to.....feet. .....

No. 3, from.....to.....feet. .....

No. 4, from.....to.....feet. .....

CASING RECORD

SIZE	WEIGHT PER FOOT	THREADS PER INCH	MAKE	AMOUNT	KIND OF SHOE	CUT & FILLED FROM	PERFORATED FROM	PERFORATED TO	PURPOSE

MUDDING AND CEMENTING RECORD

SIZE OF HOLE	SIZE OF CASING	WHERE SET	NO. SACKS OF CEMENT	METHODS USED	MUD GRAVITY	AMOUNT OF MUD USED

PLUGS AND ADAPTERS

Heaving plug—Material.....Length..... Depth Set.....

Adapters — Material..... Size.....

RECORD OF SHOOTING OR CHEMICAL TREATMENT

SIZE	SHELL USED	EXPLOSIVE OR CHEMICAL USED	QUANTITY	DATE	DEPTH SHOT OR TREATED	DEPTH CLEANED OUT

Results of shooting or chemical treatment.....

.....

.....

RECORD OF DRILL-STEM AND SPECIAL TESTS

If drill-stem or other special tests or deviation surveys were made, submit report on separate sheet and attach hereto.

TOOLS USED

Rotary tools were used from.....feet to.....feet, and from.....feet to.....feet

Cable tools were used from.....feet to.....feet, and from.....feet to.....feet

PRODUCTION

Put to producing....., 19.....

The production of the first 24 hours was.....barrels of fluid of which.....% was oil; .....%

emulsion; .....% water; and.....% sediment. Gravity, Be.....

If gas well, cu. ft. per 24 hours..... .....Gallons gasoline per 1,000 cu. ft. of gas.....

Rock pressure, lbs. per sq. in.....

EMPLOYEES

....., Driller ....., Driller

....., Driller ....., Driller

FORMATION RECORD ON OTHER SIDE

I hereby swear or affirm that the information given herewith is a complete and correct record of the well and all work done on it so far as can be determined from available records.

Subscribed and sworn to before me this.....

day of....., 19.....

.....
Notary Public

My Commission expires.....

.....
Place — Date

Name.....

Position.....

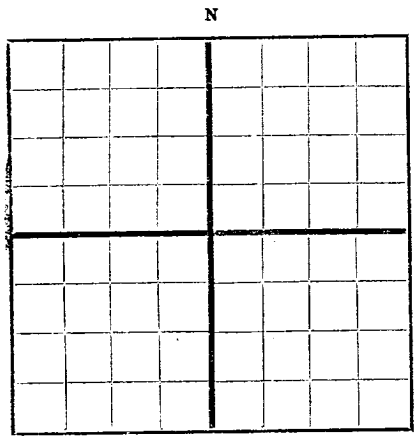
Representing.....
Company or Operator

Address.....

FORMATION RECORD

FROM	TO	THICKNESS IN FEET	FORMATION	
			Note: solid string of core did not sample.	
			5' fine to medium grain green and tan sand, slightly shaley, 60% fair oil stain.	
			2' fine to medium grain calcareous tan sand, w/few inclusions brown and green shale, 100% good stain.	
			1' dark green shale w/occasional partings, dark brown fine grains of sand, trace of stain.	
			2' fine to medium grain white to tan calcareous sand (approx. 20% limestone cement)	
			1' fine to medium grain green sand with spotty tan sand containing saturation, 50% fair stain.	
			1' medium grain green shaley sand and spotty tan sand containing saturation, 30% fair staining.	
			1' fine to medium grain green shaley sand and spotty tan sand containing saturation, 30% fair stain.	
			1' fine to medium grain green shaley sand and spotty tan sand containing saturation, 30% fair stain.	
7758	7761	3	Sand	
7686	7761	75	Drill Stem Test	2 packers 900' WC 5/8" BHC & 1" SC 1 hr. 27 min. gas 7½ min.(Est.2182 MCF) 24 hrs. WC 12 min. oil 25 min. Flowed 75 B/O 45 min. GOR 910/1 Gravity 44.3 @ 60°, SFP not measured, BHFP 2450-2400# 15 min.S-I BHP (tool failed to close) Hy Hd 3800#.
7761	7791	30	Cored (See Recovery description below:)	
			15" fine to medium grain tan and green sand, 100% fair saturation and odor.	
			25" fine to medium grain tan and greensand, slightly argillaceous, 100% good saturation and odor.	
			10" fine grain tan and green sand, and few inclusions, black cast shale, 100% fair saturation and odor.	
			18" fine to medium grain green sand with few partings dead oil stain, 30% fair saturation and odor.	
			14" fine to medium grain green sand with streaks tan oil sand, slightly shaley, 30% fair saturation and odor.	
			24" fine to medium grain tan sand, 100% dark good odor.	
			16" fine to medium grain tan sand, with inclusion green shale, 100% dark good odor.	
			26" fine to medium grain tan sand, 100% very good dark stain.	
			12" fine to medium grain tan sand, 100% very good dark stain.	
			18" very fine to medium grain green sand, 20% light stain	
			32" medium grain tan sand with occasional streaks shaley sand, 50% light stain, no samples taken here.	
			3" medium grain sand, tan, 100% good stain & odor. No samples taken here.	
			2" green shale	
			32" tan medium grain sand, 100% fair stain	
			6" fine to medium grain tan sand, 60% fair stain.	
			9" brown and green shale and gray shaley sand.	
			115" medium grain tan sand with few inclusions green shale, 100% fair stain	
			3" medium grain sandy green shale.	
			5" solid green and red shale.	
7791	7793	2	No formation logged	
7793	7803	10	Lime and shale	
7760	7803	43	Drill Stem Test	2 packers 5/8" BHC & 1" SC 930' WC gas 10 min.(Est.1710 MCF 24 hrs.) WC 13 min. oil 23 min. Flowed 68.7 B/O 45 min. 43.9° @ 60°, GOR 778/1 SFP (not measured) BHFP 2200-1900# 15 min.S-I BHP (packer pulled loose) Hy Hd 3900# in 3950# out.
7803	7835	32	Lime and shale	
7835	7848	13	Lime	
7848	7884	36	Lime and shale	
7884	7945	61	Lime	
7945	7962	17	Lime and shale	
7962	7979	17	Lime	
7979	8000	21	Lime, shale and sand	
8000	8037	37	Lime and sand	Top of Ellenberger 8035'16 SFP
8037	8047	10	Shale,lime & sandstone	1° @ 8037.
8047	8084	37	Lime	
8084	8101	17	Lime, Ellenberger	
8050	8101	51	Drill Stem Test	2 packers 930' WC 1-1/2 hrs. 3/8" BHC & 1" SC gas 25 min. (insufficient to measure) no water, mud or oil to surface, SFP not measured, BHFP 550# 425#, 15 min.S-I BHP 2750# Hy Hd 4050#, Rec. 930' WC 300' clean oil.
8101	8109	8	Ellenberger dolomite & chert.	
8109	8121	12	Ellenberger lime	
8121	8135	14	Lime	
8135	8143	8	Brown dolomite & lime	
8143	8173	30	Lime	
8100	8173	73	Drill Stem Test	2 packers 990' WC 1 hr. 20 mins., 3/8" BHC & 1" SC, gas 19½ mins.,(Ins.to measure) no water, mud or oil to surface, Rec. 990' WC 5470' clean oil (stand above tool contained mud & water) SFP not measured, BHFP 1300-2300#, 15 min.S-I BHP 2800#, Hy Hd 4050#.
	8173		TOTAL DEPTH	
	8175		Ran Schlumberger	
			Set 5½" OD csg. @ 8173 w/Multiplex collar at 7317.63 w/162 sax below the Multiplex collar WOC 4 hrs. 791 sax thru the collar. Metal Petal Baskets 7378.05, 7361.75, 7344.59, 7326.61.	

FORM C-105



AREA 640 ACRES
LOCATE WELL CORRECTLY

NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

WELL RECORD

Mail to Oil Conservation Commission, Santa Fe, New Mexico, or its proper agent not more than twenty days after completion of well. Follow instructions in the Rules and Regulations of the Commission. Indicate questionable data by following it with (?). SUBMIT IN TRIPLICATE. FORM C-110 WILL NOT BE APPROVED UNTIL FORM C-105 IS PROPERLY FILLED OUT.

.....
Company or Operator — Address

.....Well No.....in.....of Sec....., T.....
Lease

R....., N. M. P. M., ...Field, ...County.

Well is.....feet south of the North line and.....feet west of the East line of.....

If State land the oil and gas lease is No.....Assignment No.....

If patented land the owner is....., Address.....

If Government land the permittee is....., Address.....

The Lessee is....., Address.....

Drilling commenced.....19..... Drilling was completed.....19.....

Name of drilling contractor....., Address.....

Elevation above sea level at top of casing.....feet.

The information given is to be kept confidential until.....19.....

OIL SANDS OR ZONES

No. 1, from.....to..... No. 4, from.....to.....

No. 2, from.....to..... No. 5, from.....to.....

No. 3, from.....to..... No. 6, from.....to.....

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....to.....feet. .....

No. 2, from.....to.....feet. .....

No. 3, from.....to.....feet. .....

No. 4, from.....to.....feet. .....

CASING RECORD

SIZE	WEIGHT PER FOOT	THREADS PER INCH	MAKE	AMOUNT	KIND OF SHOE	CUT & FILLED FROM	PERFORATED FROM	PERFORATED TO	PURPOSE

MUDDING AND CEMENTING RECORD

SIZE OF HOLE	SIZE OF CASING	WHERE SET	NO. SACKS OF CEMENT	METHODS USED	MUD GRAVITY	AMOUNT OF MUD USED

PLUGS AND ADAPTERS

Heaving plug—Material.....Length..... Depth Set.....

Adapters — Material..... Size.....

RECORD OF SHOOTING OR CHEMICAL TREATMENT

SIZE	SHELL USED	EXPLOSIVE OR CHEMICAL USED	QUANTITY	DATE	DEPTH SHOT OR TREATED	DEPTH CLEANED OUT

Results of shooting or chemical treatment.....

.....

.....

RECORD OF DRILL-STEM AND SPECIAL TESTS

If drill-stem or other special tests or deviation surveys were made, submit report on separate sheet and attach hereto.

TOOLS USED

Rotary tools were used from.....feet to.....feet, and from.....feet to.....feet

Cable tools were used from.....feet to.....feet, and from.....feet to.....feet

PRODUCTION

Put to producing....., 19.....

The production of the first 24 hours was.....barrels of fluid of which.....% was oil; .....%

emulsion; .....% water; and.....% sediment. Gravity, Be.....

If gas well, cu. ft. per 24 hours.....Gallons gasoline per 1,000 cu. ft. of gas.....

Rock pressure, lbs. per sq. in.....

EMPLOYEES

....., Driller ....., Driller

....., Driller ....., Driller

FORMATION RECORD ON OTHER SIDE

I hereby swear or affirm that the information given herewith is a complete and correct record of the well and all work done on it so far as can be determined from available records.

Subscribed and sworn to before me this..... .....
Place — Date

day of....., 19..... Name.....

Position.....

..... Representing.....
Notary Public — Company or Operator

My Commission expires..... Address.....

FORMATION RECORD

FROM	TO	THICKNESS IN FEET	FORMATION	
0	1.15	1.15	From top of rotary drive bushing to derrick floor.	
1.15	16.31	15.16	From top of derrick floor to top of 13-3/8" OD casing.	
16.31	40	23.69	Surface hole.	
40	323	283	Red bed	1/2° @ 249'.
				Set 13-3/8" OD @ 323' w/300 sax. cement. Circ.
323	695	372	Sand and red bed	1/2° @ 550.
695	1106	411	Red rock	Straight @ 900
1106	1200	94	Anhydrite	
1200	1515	315	Red rock and anhydrite	1/4° @ 1220, Straight @ 1467'.
1515	2440	925	Anhydrite & salt	1/4° @ 1650, 3/4° @ 2046.
2440	2857	417	Anhydrite	1½° @ 2440, 1¼° @ 2565, 1½° @ 2777.
2857	2910	53	Lime & anhydrite	
2910	2921	11	Dolomite, anhydrite & Lime	2° @ 2921.
				Set 8-5/8" OD casg. @ 2921' w/1500 sax. Cement circ.
2921	2978	57	Lime	
2978	3145	167	Lime & anhydrite	1-1/2° @ 3085.
3145	4440	1295	Lime	1° @ 3456, 1° @ 3603, 1° @ 4085
				SLC 4076 = 4085
				Lost circulation at 4405.
4440	4300	140	Ran 100 sax cement	
4300	4010	290	Ran 100 sax cement	
4010	4440	430	Drilled out cement	
4440	4588	148	Lime	Lost circ. at 4588'.
4270	4588	318	100 sax cement	To regain lost circ. Tested cement plug w/500#.
4270	4588	318	Drilled out cement	
4588	5135	547	Lime	1¼° @ 4711, 1½° @ 4830.
5106	5135	29	Drill Stem Test	2 packers 5/8" BHC & 1" SC No WC tool open 1 hr. no gas oil or mud to surface, Rec. 80' of slightly oil & gas cut mud, SFP not measured, BHFP 150#, S-I BHP 915 min) 250# Hy Hd 2450#
5135	5175	40	Lime	
5135	5175	40	Drill stem test	Double packer 5/8" BHC @ 1" SC, No WC, tool open 1 hr. no gas, oil or mud to surface, good blow of air. Rec. 210' slight oil & gas cut drlg. mud w/sulphur taste, SFP not measured, BHFP 175#, S-I BHP (15 min) 1500#, Hy Hd 2500#.
5175	5677	502	Lime	1¼° @ 5423, 1¼° @ 5677'.
5677	5715	38	No formation logged	
5715	7272	1557	Lime	1° @ 5809, 1° @ 5920, ¼° @ 6282, 1¼° @ 6590, 1¼° @ 6765.
				SLC 7020 = 6974
7272	7276	4	Chert, lime & shale	
7276	7303	27	Chert & lime	
7303	7313	10	Lime	
7313	7347	34	Chert, lime & shale	
7347	7411	64	Lime	1° @ 7370
7411	7465	54	Shale & lime	
7465	7480	15	Lime	
7480	7559	79	Shale & lime	
7559	7581	22	Lime	
7581	7621	40	Lime and shale	
7621	7673	52	Lime	
7673	7697	24	No formation logged	SLM 7673 = 7697 1° @ 7697. Top McKee 7690.
7697	7726	29	Cored	Rec. 29' (see description below)

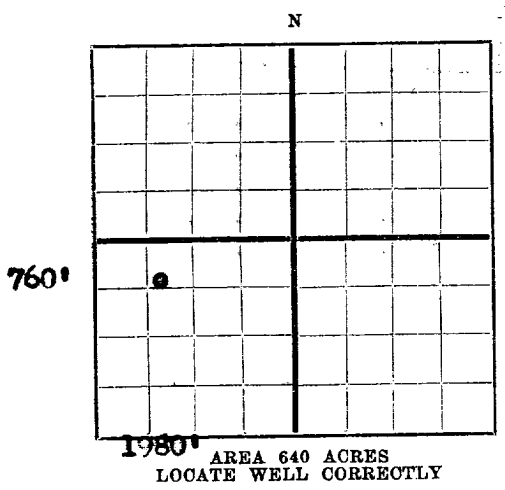
Description of above core:

Top 3' fine to medium grain green sand, clay cement, trace pyrite, few quartz grains.
1' fine to medium grain green mottled sand, white & black grained sandstone, few quarts grains.
1' fine to medium grain green mottled sand, white and black grained sandstone, trace green shale in matrix, few quarts grains.
2' fine to medium grain tan mottled sand with inclusions of green shale, 100% fair stain, few quarts grains.
2' fine to medium grain tan to green mottled sand, 100% fair stain, few quarts gr graingrain
1' very fine grain white sand w/streaks of green sand, trace of stain oil.
2' fine to medium grain white to tan sand w/inclusions of green shaley sand, 80% stain fair oil.
3' fine to medium grain green mottled balck sandstone, 80% fair stain of oil.
2' fine to medium grain green mottled balck and green sandstone, trace green shale in pores, 100% good stain oil.
3' medium grain green mottled black and green sandstone, 100% fair stain oil.
1' fine to medium grain green mottled black and green sandstone, slightly calcareous, 100% fair stain oil.
1' fine to medium grain tan mottled black and green sandstone, slightly calcareous, 100% good oil stain.
2' fine to medium grain gray sandstone, slightly calcareous, 50% fair oil stain.
3' fine to medium grain green shaley sand, 20% fair oil stain.
1' fine to medium grain green shaley sand, 10% fair oil stain.
1' fine to medium grain green shaley sand, 10% fair oil stain.

7726	7727	1	Sand	
7727	7758	31	Cored - Recovery below:	

Top 1' fine to medium grain green sand, slightly shaley, 60% fair oil stain.
2' fine to medium grain green sand, slightly shaley, 80% fair oil stain.
2' fine to medium grain green sand, shaley, 40% fair oil stain.
4' fine to medium grain green sand, shaley, 40% fair oil stain.
3' fine to medium grain green sand, shaley, 40% fair oil stain.
5' fine to medium grain green and tan sand, slightly shaley, 20% fair oil stain.

FORM C-105



NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

WELL RECORD

Mail to Oil Conservation Commission, Santa Fe, New Mexico, or its proper agent not more than twenty days after completion of well. Follow instructions in the Rules and Regulations of the Commission. Indicate questionable data by following it with (?). SUBMIT IN TRIPLICATE. FORM C-110 WILL NOT BE APPROVED UNTIL FORM C-105 IS PROPERLY FILLED OUT.

Magnolia Petroleum Company (Company or Operator) Box 727, Kermit, Texas (Address)

E. O. Carson (Lease) Well No. 19 in SW/4 of Sec. 28, T 21S

R. 37E, N. M. P. M., Brunson Field, Lea County.

Well is 1980 feet North South of the North line and 760 feet East West of the East line of SW/4 of Sec. 28

If State land the oil and gas lease is No. ..... Assignment No. .....

If patented land the owner is E. O. Carson Address Merkel, Texas

If Government land the permittee is ..... Address .....

The Lessee is Magnolia Petroleum Company Address Box 727, Kermit, Texas

Drilling commenced October 24, 1948. Drilling was completed January 2, 1948

Name of drilling contractor MPCo. NewMexOrlg. Tools Address Box 633, Midland, Texas

Elevation above sea level at top of casing 3474 feet.

The information given is to be kept confidential until ..... 19.....

OIL SANDS OR ZONES

No. 1, from 8080 to 8100 No. 4, from ..... to .....

No. 2, from ..... to ..... No. 5, from ..... to .....

No. 3, from ..... to ..... No. 6, from ..... to .....

IMPORTANT WATER SANDS none logged

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from ..... to ..... feet. .....

No. 2, from ..... to ..... feet. .....

No. 3, from ..... to ..... feet. .....

No. 4, from ..... to ..... feet. .....

CASING RECORD

SIZE	WEIGHT PER FOOT	THREADS PER INCH	MAKE	AMOUNT	KIND OF SHOE	CUT & FILLED FROM	PERFORATED FROM	PERFORATED TO	PURPOSE
13-3/8	32.4	8 RT	SW	323	Halliburton				Surface
8-5/8	32	8 RT	J-55	2921	Halliburton				Inter-Mediate
5-1/2	17	8 RT	J-55	8173	Halliburton		8080	8100	Oil String
2"	4.7	8 RT	EUE	8169½					

MUDDING AND CEMENTING RECORD

SIZE OF HOLE	SIZE OF CASING	WHERE SET	NO. SACKS OF CEMENT	METHODS USED	MUD GRAVITY	AMOUNT OF MUD USED
17½	13-3/8	323	300	Pump & Plug		
11	8-5/8	2921	1500	Pump & Plug		
7-7/8	5-1/2	8173	953	Pump & Plug		

PLUGS AND ADAPTERS

Heaving plug—Material ..... Length ..... Depth Set .....

Adapters — Material ..... Size .....

RECORD OF SHOOTING OR CHEMICAL TREATMENT

SIZE	SHELL USED	EXPLOSIVE OR CHEMICAL USED	QUANTITY	DATE	DEPTH SHOT OR TREATED	DEPTH CLEANED OUT
		20% low tension acid	500 gals.		8080-8100	
		20% low tension acid	1000 gals.		8080-8100	

Results of shooting or chemical treatment Completion of well

RECORD OF DRILL-STEM AND SPECIAL TESTS

If drill-stem or other special tests or deviation surveys were made, submit report on separate sheet and attach hereto.

TOOLS USED

Rotary tools were used from Top (0) feet to 8173 feet, and from ..... feet to ..... feet

Cable tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet

PRODUCTION

Put to producing January 20, 1949

The production of the first 16½ hours was 175.3 barrels of fluid of which 100 % was oil; 0 % emulsion; 0 % water; and 0 % sediment. Gravity, Be. 37.3 @ 60°

If gas well, cu. ft. per 24 hours — Gallons gasoline per 1,000 cu. ft. of gas .....

Rock pressure, lbs. per sq. in. .....

EMPLOYEES

....., Driller ....., Driller

....., Driller ....., Driller

FORMATION RECORD ON OTHER SIDE

I hereby swear or affirm that the information given herewith is a complete and correct record of the well and all work done on it so far as can be determined from available records.

Subscribed and sworn to before me this 31st day of January, 1949

Notary Public

My Commission expires June 1, 1949

Kermit, Texas (Place) January 31, 1949 (Date)

Name .....

Position District Superintendent

Representing Magnolia Petroleum Company (Company or Operator)

Address Box 727, Kermit, Texas

FORMATION RECORD

FROM	TO	THICKNESS IN FEET	FORMATION	
			Centralizers at 8174.01, 8103.49, 8037.58, 7971.69, 7905.68, 7837.06, 7770.58, 7706.25, 7378.05, 7369.90, 7335.60, 7284.11, 6619.64, 6553.61, 6487.60, 6424.28, 5284.88, 5219.04, 5181.08, 5094.59, 5088.26, 2707.18, 2675.24.	
2000	7170	5170	Halliburton Ran Temp. Survey	Approx. top cem. 2752'.
	8173		Drilled out cement	Tested casg. with 1500# 30 min. before and after drlg. Multiplex collar. No break.
8120	8155	35	Lane Wells Perf. 5½" OD casing.	210 holes 6 SPF.
				2" tubing at 8169½ Swabbed 66 BLO (62 bo rec.) 266 BSW 24 hrs.4000' FIH.
	8107		Pet Yowell Tool	
8120	8155	35	110 sax cement squeezed perf.	75 sax cement thru perf. Reversed out 35 sax 3500-4800#. top cement 8106. Pressured top cement w/1000#, no break.
	8106		PBTD	
8080	8100	20	Lane Wells perf. 5½" OD casg.	6 SPF 120 holes. Swabbed dry, 50 BLO to rec.
8080	8100	20	Western Co.acidized	w/500 gals.20% low tension TP 400-2850#-2200#,CP 100-2600-2500# 1 hr. 49 mins. 50 gals PM after press.break.
				Swab 10 BLO 3 hrs.500' OIH no fill-up for 3 hrs., Vac. on casing, very little gas on tubing.
8080	8100	20	Chemical Process Acidized	w/1000 gals. 20% low tension 2150-2000# 55 GPM 19 mins.

RRC Potential Test: Flowed 175.3 B/O 16-1/2 hrs. 16/64" choke. CP 100-400#, TP 375-525#, GOR 1018/1, 3/10 of 1% AW, 37.3 @ 60°, Est. 253 BOPD 16/64" choke.