

J. COPELAND LANDES
416 Union Center Bldg.
Wichita, Kansas 67202

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Res. MU 6-8364

November 16, 1976

AMERICAN OVERSEAS OIL & GAS
Exploration & Producing

RE: SOUTHERN STATES OIL CO.
Swingle A-1
NE NW SW Section 34-30S-9W,
Kingman County, Kansas

SOUTHERN STATES OIL CO.
P. O. Box 1365
Great Bend, Kansas 67530

Gentlemen:

Following is the pertinent information concerning the above captioned well.

Spud: 11/2/76	Complete: 11/8/76
Contractor: Graves Drilling Co.	Tool Pusher: Mr. Kuhn
Surface Pipe: 8 5/8" w/225 sx.	Production pipe: None
Samples: 2000 to T.D.	Drill Time: 2000' to T.D.
DST's: (2) - Western	Cores: None
Log: Petrolog; IES; C.D.	Mud: Baroid
Elevation: Laughlin & Simmons	Logging Unit: Baroid

Geological formation tops as picked from the open hole log.

ELEVATION KB 1647

Indian Cave	2476 (- 829)
Tarkio	2723 (-1076)
Howard	2932 (-1285)
Topeka	3065 (-1418)
Heebner	3437 (-1790)
Kansas City	3642 (-1995)
Stark	4060 (-2413)
Base Kansas City	4156 (-2509)
Mississippi Lime	4362 (-2715)

ZONES OF INTEREST ARE AS FOLLOWS:

Indian Cave 2476-2500

The samples here were almost all shale; however, there was a trace of white, very fine grain sand to = siltstone. The Indian Cave is for the most part a sandy siltstone and very little is ever seen in the samples. There was a 25 unit "gas kick" on the mud analyzer which is considered excellent for Indian Cave. Therefore, we straddle this zone after running logs.

D.S.T. #2 2427-2514

Open	1 hr.	IFP	582#
Shut In	1 hr.	ISIP	956#
Open	1 hr.	FFP	727#
Shut In	1 hr.	FSIP	966#

Recovered: 1533 ft. of very slightly gas cut mud.

Mississippi 4362-4424

Limestone - white to buff - with very little to no apparent porosity. There were a few samples showing a little chert but there was no development of the chert zone as such.

D.S.T. #1 4377-4404

Open	30 min.	IFP	41#
Shut In	30 min.	ISIP	83#
Open	1 hr.	FFP	41#
Shut In	1 hr.	FSIP	104#

Recovered: 8' drilling mud with no show.

SOUTHERN STATES OIL CO.
Swingle A-1
Kingman County, Kansas

-3-

November 16, 1976

Recommendations:

In any future wells on these properties, I would highly recommend a gas detector under surface and if a "gas kick" is found in Indian Cave it be tested at that time and not at a later time. The reason being, we had as best any one can determine, a perfect Drill Stem Test of the Indian Cave and recovered very rapidly a 1000' of drilling mud. This, I would assume, would have a tendency to dampen any hopes of recovering a good gas test. The chlorides were tested throughout the recovery and found to be 13,000 ppm - exactly the same as drilling mud was carrying at the time.

Because of the good drilling break, the good gas kick, the development on log and the presence of the zone developed in the quarter section to the north in the Artnell well, consider this area for a shallow Indian Cave test or possibly for farmout of some type before releasing.

Sincerely,


J. COPELAND LANDES

JCL:wlr

SOUTHERN STATES OIL CO.
 SWINGLE A-1
 NE NW SW Section 34-30S-9W,
 Kingman County, Kansas

One foot drilling time

2000-2010	1-2-1-2-1-2-1-2-2-2	2400-2410	½-1-½-½-1-½-½-1-1-1
20	1-3-1-2-2-3-2-3-3-4	20	1-1-1-½-½-½-½-1-1-1
30	3-3-2-2-2-3-2-2-2-2	30	1-1-1-½-½-1-1-2-2-2
40	1-2-2-2-2-2-1-2-2-4	40	2-2-2-1-2-½-½-½-½-1
50	3-2-2-2-2-2-2-1-1-1	50	1-½-½-1-1-1-½-1-1-1
60	1-2-2-2-2-2-2-2-2-1	60	1-1-2-1-1-1-1-1-1-1
70	2-2-1-2-2-2-2-2-2-2	70	1-1-1-2-1-1-1-1-½-½
80	1-1-2-4-2-3-3-2-2-1	80	½-½-½-½-½-½-½-1-½-½
90	2-3-2-2-1-1-2-3-2-1	90	½-½-½-½-1-1-1-1-½-½
2090-2100	2-1-1-1-2-2-1-1-1-1	2490-2500	1-1-1-½-½-½-½-½-½-1
2100-2110	2-3-2-3-2-3-3-3-3-2	2500-2510	1-½-½-1-1-½-½-½-1-1
20	2-2-2-1-2-2-2-2-2-3	20	1-1-2-2-1-1-1-2-1-1
30	1-3-1-2-2-1-2-3-3-3	30	1-2-1-1-2-1-1-1-1-1
40	3-3-2-2-3-2-2-2-3-2	40	2-1-2-1-1-1-2-1-1-1
50	2-2-2-3-2-2-3-2-2-3	50	1-1-1-1-1-1-1-1-1-1
60	3-3-3-2-2-2-2-1-3-3	60	1-1-1-1-1-1-1-1-1-1
70	3-2-1-1-2-1-1-1-1-2	70	1-1-1-1-1-1-1-1-1-1
80	2-1-2-2-2-1-1-1-1-1	80	1-1-1-½-½-1-1-1-1-1
90	1-2-2-2-3-2-1-2-2-1	90	½-½-1-1-1-1-1-½-½-1
2190-2200	2-2-1-1-2-1-1-1-1-1	2590-2600	½-½-1-½-½-1-½-½-1-1
2200-2210	1-1-1-1-1-½-½-1-2-2	2600-2610	1-1-1-1-1-½-½-1-1-2
20	3-2-2-2-2-3-2-2-2-1	20	1-2-2-2-1-2-1-2-1-1
30	1-2-1-1-1-1-1-1-1-1	30	1-1-2-1-1-2-1-1-2-1
40	1-2-2-1-1-2-1-1-2-2	40	2-1-1-1-2-2-2-2-1-2
50	1-2-2-2-2-2-2-2-2-2	50	1-1-1-1-2-2-1-2-1-2
60	1-1-1-2-1-1-1-1-1-1	60	1-1-½-½-1-1-1-1-1-1
70	1-1-2-2-1-1-1-1-1-2	70	1-1-1-1-1-1-2-1-2-1
80	2-2-2-2-2-2-2-2-1-1	80	1-2-2-2-2-2-1-2-1-1
90	1-1-1-1-½-½-1-1-1-1	90	1-1-2-1-1-1-2-1-2-2
2290-2300	1-2-1-1-1-1-1-1-2-1	2690-2700	1-1-1-2-1-2-2-2-2-2
2300-2310	1-2-2-2-2-2-2-2-2-2	2700-2710	1-2-1-1-1-1-1-1-1-2
20	1-1-2-2-2-2-2-1-1-1	20	2-2-1-1-1-2-2-1-1-1
30	2-2-2-1-1-1-2-2-1-1	30	1-1-2-2-2-2-2-2-2-3
40	1-1-1-2-1-2-1-1-2-1	40	1-2-1-1-1-2-1-1-2-1
50	1-1-2-2-2-2-2-2-2-2	50	2-2-3-2-2-1-2-2-2-1
60	3-2-2-1-1-½-½-½-½-1	60	2-2-2-2-2-2-2-2-2-2
70	1-1-1-1-2-2-1-1-1-1	70	2-2-2-2-2-3-3-3-3-3
80	2-1-1-2-1-1-1-½-½-2	80	2-2-3-3-2-2-2+2-1-2
90	½-½-1-1-1-1-1-1-1-2	90	2-1-2-2-2-2-1-1-2-2
2390-2400	1-1-1-1-1-1-1-½-½-½	2790-2800	2-1-1-1-1-1-1-1-1-1

SOUTHERN STATES OIL CO.
 SWINGLE A-1
 NE NW SW Section 34-30S-9W,
 Kingman County, Kansas

One Foot drilling time - Page 2.

2800-2810	2-3-2-2-2-2-2-2-2-2	3200-3210	2-3-2-3-2-3-2-3-2-3
20	2-2-2-2-2-2-2-2-2-1	20	2-3-2-3-2-3-2-2-3-2
30	1-1-2-1-1-1-2-2-3-3	30	2-2-2-3-2-2-2-2-2-2
40	2-2-2-2-2-2-1-2-1-1	40	1-2-3-2-2-2-1-2-3-2
50	2-2-2-1-2-1-2-2-2-2	50	1-2-2-1-2-2-2-2-2-3
60	2-2-2-1-2-2-2-2-2-2	60	1-1-2-2-2-1-1-1-2-2
70	2-2-2-1-1-2-1-2-1-2	70	2-2-2-1-1-2-2-1-1-1
80	2-2-2-2-2-2-2-1-2-2	80	1-1-1-1-1-1-1-1-1-1
90	1-1-3-2-3-3-3-2-3-3	90	1-1-1-1-1-1-1-1-1-1
2890-2900	2-3-1-2-2-2-2-1-2-1	3290-3300	1-1-1-1-2-2-3-2-1-1
2900-2910	1-2-1-1-2-2-1-1-2-2	3300-3310	1-1-3-4-3-2-3-3-2-3
20	2-2-1-1-1-1-1-1-2-2	20	3-2-2-3-2-2-3-3-3-3
30	1-1-2-2-2-1-1-1-2-1	30	3-3-3-3-3-3-4-3-3-2
40	1-1-1-3-2-3-2-2-2-3	40	3-3-3-3-2-4-3-3-2-3
50	2-2-3-2-2-3-1-2-2-2	50	2-2-3-3-2-3-2-3-3-3
60	1-2-1-2-1-1-1-1-2-2	60	2-4-2-2-3-1-3-2-1-2
70	2-2-2-2-3-1-1-1-2-1	70	3-3-2-2-3-2-2-3-2-2
80	1/2-1/2-1-1/2-1/2-1-2-1-1-1	80	3-3-2-2-2-3-3-3-3-3
90	1-1-1-1-1-1-1-1-1-1	90	3-2-2-1-2-3-2-2-2-2
2990-3000	1-1-1-1-1-1-1/2-1/2-1/2-1/2	3390-3400	1-1-2-2-2-2-2-1-2-2
3000-3010	1/2-1/2-1/2-1/2-1/2-1/2-1/2-1/2-1/2	3400-3410	2-2-3-3-3-4-4-4-6-6
20	1-1-1/2-1/2-1-2-2-1-2-3	20	3-2-3-2-2-3-2-2-2-1
30	2-1-2-1-1-2-1-1-1-1	30	1-3-2-3-2-3-4-3-3-3
40	1-1-2-2-1-2-1-2-2-2	40	2-3-3-3-3-3-3-3-3-2
50	1-3-1-1-2-2-1-2-1-1	50	2-4-3-4-3-2-2-3-3-2
60	1-2-1-2-1-1-1/2-1/2-1/2-1/2	60	2-3-2-3-2-3-2-1-2-1
70	1/2-1/2-1-1-2-2-2-1-1-2	70	1-1-1-1-1-1-1-1-1-1
80	2-2-2-1-1-1/2-1/2-1-1-1	80	2-3-2-2-2-2-2-2-2-2
90	1-1-1-1-1-2-1-1-1-1	90	2-2-2-2-2-2-2-3-2-2
3090-3100	1-1-1-1-1-1-2-1-1-1	3490-3500	3-2-2-2-1-1-1/2-1/2-1-1
3100-3110	1-1-1-1-1-1-1-1-1-1	3500-3510	2-3-2-3-2-3-2-3-2-3
20	1-1-2-1-1-1-1-1-1-2	20	3-2-3-1-1-1-1-1-1-2
30	1-2-2-1-1-2-2-1-1-1	30	1/2-1/2-1/2-1-1-1/2-1/2-1/2-1/2
40	2-2-1-2-2-2-2-2-2-2	40	1/2-1-1-1-1-1-1-1-3-3
50	2-3-2-2-1-1-1/2-1/2-1-1	50	4-3-3-3-4-2-4-4-2-3
60	1-1-1-1/2-1/2-1-1-1-1-2	60	3-4-3-3-3-3-3-2-2-3
70	2-2-2-1-2-4-4-5-5-4	70	3-2-2-3-2-3-2-2-2-1
80	5-4-4-4-4-3-3-4-3-4	80	1-1-1-1-2-1-1-1-1-2
90	3-3-3-3-3-3-3-3-3-3	90	1-1-1-1-1-2-2-1-1-1
3190-3200	3-3-3-3-3-3-3-2-3-3	3590-3600	1-2-4-3-1-1/2-1/2-1/2-1/2

SOUTHERN STATES OIL CO.
 SWINGLE A-1
 NE NW SW Section 34-30S-9W,
 Kingman County, Kansas

One Foot drilling time - Page 3

3600-3610	½-½-½-1-2-2-1-½-½-1	4000-4010	2-3-2-3-3-4-4-3-4-4	
20	1-1-1-1-1-1-1-1-1-1	20	3-4-2-2-2-1-2-3-2-2	
30	1-1-2-1-1-1-2-1-2-2	30	2-3-5-3-2-2-4-3-2-3	
40	1-1-1-1-1-1-1-1-1-1	40	2-3-2-2-3-2-3-3-3-3	
50	1-1-2-3-4-3-4-2	50	3-4-2-1-2-2-1-1-1-2	
60	3-3-4-3-3-4-4-4-3-3	60	1-1-3-2-4-3-4-3-4-3	
70	3-3-3-4-2-3-3-4-3-4	70	5-3-3-2-1-1-2-2-2-3	
80	3-4-3-4-3-3-3-3-3-3	80	4-4-2-2-3-2-2-1-1-1	
90	3-3-3-3-4-4-4-3-4-4	90	1-1-1-1-1-2-3-3-2-3	
3690-3700	4-3-4-4-4-4-3-3-3-3	4090-4100	3-4-5-3-3-3-1-5-5-4	
3700-3710	3-3-3-3-3-3-3-3-3-3	4100-4110	6-2-5-2-2-4-3-1-½-½	
20	2-3-4-5-4-3-2-2-2-2	20	2-½-1½-2-3-4-6-5-3-6	
30	2-2-2-3-3-4-3-3-4-4	30	4-5-3-5-4-5-6-6-5-5	
40	4-3-3-3-3-3-1-1-2-3	40	5-4-5-5-4-5-5-5-4-4	
50	2-4-4-4-3-3-2-3-3-3	50	3-4-3-3-5-4-5-5-4-4	
60	3-2-4-4-2-2-2-3-3-4	60	5-4-5-5-3-2-3-4-3-2	
70	4-4-3-3-3-4-3-4-4-3	70	3-3-2-2-2-2-2-2-2-2	
80	4-4-4-3-3-2-2-3-2-2	80	2-2-2-3-2-3-4-3-3-4	
90	3-3-3-4-5-3-3-4-4-2	90	3-3-3-4-4-4-4-3-4-4	
3790-3800	2-2-2-3-2-3-3-3-4-3	4190-4200	4-3-5-5-4-5-4-3-3-4	
3800-3810	4-3-3-3-2-3-4-3-3-4	4200-4210	3-1-2-3-3-3-4-3-3-3	Conn.
20	1-1-2-2-3-3-4-3-2-1	20	4-3-3-4- 5-4-4-3-4	
30	2-2-3-4-3-2-3-3-3-4	30	4-3-5-4-3-4-4-4-4-4	
40	4-3-3-3-3-3-3-1-3-3	40	4-4-4-4-4-4-3-4-3-1	
50	4-4-3-4-3-4-3-3-4-3	50	1-3-3-3-4-3-3-3-7-3	
60	4-3-3-4-3-4-3-3-4-3	60	4-4-4-3-3-3-3-5-5-4	
70	3-2-2-3-3-3-3-3-4-4	70	4-4-4-4-5-5-5-5-5-3	
80	4-4-5-3-4-4-5-5-3-5	80	3-2-3-4-3-3-3-3-3-4	
90	4-4-2-3-5-5-4-5-4-5	90	3-4-4-3-5-5-5-3-4-3	
3890-3900	4-4-5-3-4-4-4-4-4-3	4290-4300	4-3-4-3-4-2-4-4-4-3	
3900-3910	7-3-2-2-2-1-1-1-1-2	4300-4310	4-2-3-3-4-3-4-4-5-3	
20	2-1-2-2-1-2-1-2-2-2	20	4-5-5-5-5-4-5-4-4-5	
30	3-2-2-2-1-2-1-1-1-2	30	4-4-3-3-4-4-4-4-3-3	
40	5-4-4-4-3-4-3-5-4-3	40	4-5-3-2-3-4-3-3-3-4	Conn.
50	4-3-2-5-2-3-5-4-5-5	50	6-3-3-2-3-2-3-2-4-3	
60	4-3-4-3-3-2-2-1-1-2	60	3-3-2-3-2-3-3-3-2-3	
70	3-4-2-1-1-2-4-4-4-4	70	3-3-3-3-3-2-4-2-3-2	Conn. C.P.S.
80	4-4-4-3-4-3-4-4-4-4	80	5-3-2-3-3-1-3-2-4-3	
90	3-5-4-4-3-4-4-4-5-5	90	1-3-3-4-4-2-3-4-4-4	
2990-4000	3-3-2-3-2-2-2-2-1-2	4390-4400	3-4-5-4-5-4-4-5-4-4	

SOUTHERN STATES OIL CO.
SWINGLE A-1
NE NW SE Section 34-30S-9W,
Kingman County, Kansas

One Foot drilling time - Page 4

4400-4410	6-5-6-5-4-5-5-5-4-3	C.F.S.
20	5-4-5-5-4-4-3-5-3-5	
30	3-4-4-3	Circ. for Log.