



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET 21732

P. O. BOX 793 PHONE 793-7903
GREAT BEND, KANSAS

Formation Miss Elevation 1647 KB Eff. Pay Ft.

District Pratt Date 11-8-76 Customer Order No.

COMPANY NAME Southern States Oil Co.

ADDRESS Box 1365 Great Bend Kansas

LEASE AND WELL NO. Swingle "A" #1 COUNTY Kingman STATE Kansas Sec 34 Twp 30S Rge 9W

Mail Inv. To same Co. Name Address No. Copies Requested usual

Mail Charts To same Address No. Copies Requested usual

Formation Test No. #1 O.K. X Misrun Interval Tested From 4377 to 4404 Total Depth 4404

Size Main Hole 7 3/8 Rat Hole Conv. X B.T. Damaged Yes X No Conv. B.T. X Damaged Yes X No

Top Packer Depth 4372 Ft. Size 6 3/4 Bottom Packer Depth 4377 Ft. Size 6 3/4

Straddle Conv. B.T. Damaged Yes No Packer Depth Ft. Size

Tool Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 37 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4397 Ft. Clock No. 6799 Depth 4399 Ft. Clock No. 8475

Top Make Kuster Cap. 4150 No. 2606 Inside Outside Bottom Make Kuster Cap. 4000 No. 3351 Inside Outside

Below Straddle: Depth Rec. No. Clock No. Outside

Time Set Packer 11:51 A M

Tool Open I.F.P. From 11:53 A.M. to 12:23 P.M. Hr. 30 Min. From (B) 41 46 P.S.I. To (C) 41 33 P.S.I.

Tool Closed I.C.I.P. From 12:23 P.M. to 12:53 P.M. Hr. 30 Min. (D) 83 79 P.S.I.

Tool Open F.F.P. From 12:53 P.M. to 1:53 P.M. 1 Hr. Min. From (E) 41 46 P.S.I. To (F) 41 33 P.S.I.

Tool Closed F.C.I.P. From 1:53 P.M. to 2:53 P.M. 1 Hr. Min. (G) 104 96 P.S.I.

Initial Hydrostatic Pressure (A) 2135 P.S.I. Final Hydrostatic Pressure (H) 2135 P.S.I. Maximum Temp. 125

INFORMATION

BLOW Fair blow about 6 inch 1st opening & about 3 inch 2nd opening

Did Well Flow Yes X No Recovery Total Ft. 8 ft drilled

Reversed Out Yes X No Mud Type Drispac Viscosity 36 Weight 9.2 Water Loss 13.2 cc. Chlorides 10,000

EXTRA EQUIPMENT: Type Circ. Sub. pin Safety Joint Jars: Size In. Make Ser. No.

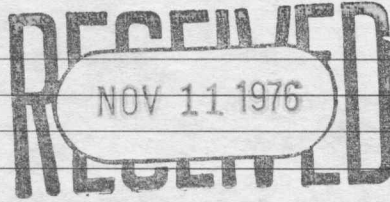
Dual Packers yes Did Packers Hold? yes Did Tool Plug? no Where?

DRILLING CONTRACTOR Graves Drlg. Co. Length Drill Pipe ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 FH In.

Length Weight Pipe 305 ft. I.D. Weight Pipe 2.9 In. Tool Joint Size 4 1/2 XH In. Length Drill Collars 123 ft. I.D. Drill Collars 29 In.

Tool Joint Size 4 1/2 H90 In. Length D.S.T. Tool 59 ft.

Remarks



INVOICE SECTION

Table with 2 columns: Item, Amount. Includes Open Hole Test \$415.00, Straddle Test, Jars, Selective Zone, Safety Joint, Misrun, Evaluation, Packer, Circ. Sub., Total.

COMPANY TERMS

Western Testing Co., Inc., shall not be liable for damage of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, or its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made. All charges subject to 10% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By [Signature] Western Representative [Signature] Operator's Time [Signature] Hrs.

WESTERN TESTING CO., INC.
Pressure Data

Date 11-8-76

Test Ticket No. 21732

Recorder No. 2606

Capacity 41.0

Location 4397

Clock No. 6799

Elevation 1647 Kelly Bushing

Well Temperature 125

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2138</u>	P.S.I.	<u>11:57 A</u>	M
B First Initial Flow Pressure	<u>46</u>	P.S.I.	<u>30</u>	Mins. <u>30</u> M
C First Final Flow Pressure	<u>33</u>	P.S.I.	<u>30</u>	Mins. <u>30</u> M
D Initial Closed-in Pressure	<u>79</u>	P.S.I.	<u>60</u>	Mins. <u>65</u> M
E Second Initial Flow Pressure	<u>48</u>	P.S.I.	<u>60</u>	Mins. <u>57</u> M
F Second Final Flow Pressure	<u>33</u>	P.S.I.		
G Final Closed-in Pressure	<u>96</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2138</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of 0 Min.

Initial Shut-In
Breakdown: 10 Inc.
of 3 mins. and a
final inc. of 0 Min.

Second Flow Pressure
Breakdown: 12 Inc.
of 5 mins. and a
final inc. of 0 Min.

Final Shut-In
Breakdown: 20 Inc.
of 3 mins.
final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	<u>46</u>	0	<u>33</u>	0	<u>48</u>	0	<u>33</u>
P 2	<u>33</u>	3	<u>35</u>	5	<u>33</u>	3	<u>36</u>
P 3	"	6	<u>36</u>	10	"	6	<u>40</u>
P 4	"	9	<u>42</u>	15	"	9	<u>43</u>
P 5	"	12	<u>48</u>	20	"	12	<u>46</u>
P 6	"	15	<u>54</u>	25	"	15	<u>50</u>
P 7	<u>33</u>	18	<u>58</u>	30	<u>39</u>	18	<u>54</u>
P 8		21	<u>64</u>	35	"	21	<u>58</u>
P 9		24	<u>69</u>	40	<u>34</u>	24	<u>61</u>
P10		27	<u>75</u>	45	"	27	<u>64</u>
P11		30	<u>79</u>	50	"	30	<u>69</u>
P12		33		55	"	33	<u>71</u>
P13		36		60	"	36	<u>75</u>
P14		39		65	<u>33</u>	39	<u>78</u>
P15		42		70		42	<u>81</u>
P16		45		75		45	<u>84</u>
P17		48		80		48	<u>87</u>
P18		51		85		51	<u>90</u>
P19		54		90		54	<u>94</u>
P20		57				57	<u>96</u>
WTC - 4		60				60	



Home Office: Wichita, Kansas 67201
P. O. Box 1599 (316) 838-0601

Company Southern States Oil Company Lease & Well No. Swingle A #1
Elevation 1647 Kelly Bush. Formation Mississippi Effective Pay - Ft. Ticket No. 21732
Date 11-8-76 Sec. 34 Twp. 30S Range 9W County Kingman State Kansas
Test Approved by J. Copeland Landes Western Representative Lonnie J. Cline

Formation Test No. 1 O.K. Misrun Interval Tested From 4377' to 4404' Total Depth 4404'
Size Main Hole 7 7/8 Rat Hole Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No
Top Packer Depth 4372 Ft. Size 6 3/4 Bottom Packer Depth 4377 Ft. Size 6 3/4
Straddle Conv. B.T. Damaged Yes No Packer Depth - Ft. Size -
Tool Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 37 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4397 Ft. Clock No. 6799 Depth 4399 Ft. Clock No. 8475
Top Make Kuster Cap. 4150 No. 2606 ~~Inside~~ Outside Bottom Make Kuster Cap. 4000 No. 3351 ~~Inside~~ Outside
Below Straddle: Depth - Rec. No. - Clock No. - ~~Inside~~ Outside Depth - Ft. Rec. No. - Clock No. - ~~Inside~~ Outside

Time Set Packer 11:51A. M
Tool Open I.F.P. From 11:53A M. to 12:23P M. - Hr. 30 Min. From (B) 46 P.S.I. To (C) 33 P.S.I.
Tool Closed I.C.I.P. From 12:23 M. to 12:53P M. - Hr. 30 Min (D) 79 P.S.I.
Tool Open F.F.P. From 12:53P M. to 1:53P M. - Hr. 60 Min. From (E) 48 P.S.I. To (F) 33 P.S.I.
Tool Closed F.C.I.P. From 1:53P M. to 2:53P M. - Hr. 60 Min. (G) 96 P.S.I.
Initial Hydrostatic Pressure (A) 2138 P.S.I. Final Hydrostatic Pressure (H) 2138 P.S.I. Maximum Temp. 125

INFORMATION

BLOW Fair blow throughout test.
Did Well Flow - Yes No Recovery Total Ft. 8' of drilling mud.

Reversed Out - Yes No Mud Type Drispac Viscosity 36 Weight 9.2 Water Loss 13.2 cc. Chlorides 10,000 PPM
EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint Jars: Size - In. Make - Ser. No. -
Dual Packer Yes Did Packers Hold? Yes Did Tool Plug? No Where? -
DRILLING CONTRACTOR Graves Drilg. Co., Inc. Length Drill Pipe? - Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 FH In.
Length Weight Pipe 305 Ft. I.D. Weight Pipe 2.9 In. Tool Joint Size 4 1/2 XH In. Length Drill Collars 123 Ft. I.D. Drill Collars 2 1/4 In.
Tool Joint Size 4 1/2 H-90 Length D.S.T. Tool 59 Ft.

Remarks:

WESTERN TESTING CO., INC.
Pressure Data

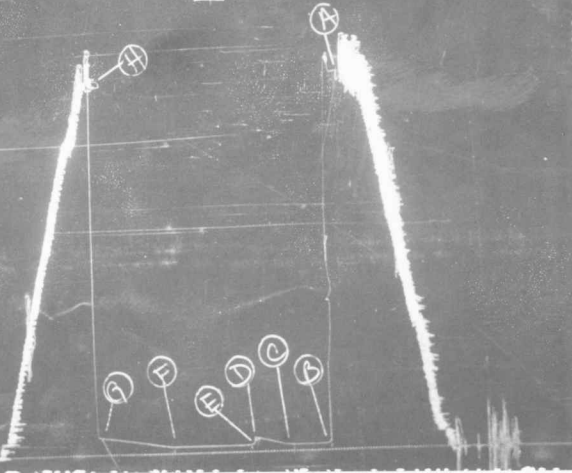
Date 11-8-76 Test Ticket No. 21732
 Recorder No. 2606 Capacity 4150 Location 4397 Ft.
 Clock No. 6799 Elevation 1647 Kelly Bushing Well Temperature 125 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2138</u>	P.S.I.	<u>11:51A.</u>	<u>M</u>
B First Initial Flow Pressure	<u>46</u>	P.S.I.	<u>30</u>	<u>30</u> Mins.
C First Final Flow Pressure	<u>33</u>	P.S.I.	<u>30</u>	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>79</u>	P.S.I.	<u>60</u>	<u>65</u> Mins.
E Second Initial Flow Pressure	<u>48</u>	P.S.I.	<u>60</u>	<u>57</u> Mins.
F Second Final Flow Pressure	<u>33</u>	P.S.I.		
G Final Closed-in Pressure	<u>96</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2138</u>	P.S.I.		

PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.
	of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
	final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	
P 1 <u>0</u>	<u>46</u>	<u>0</u>	<u>33</u>	<u>0</u>	<u>48</u>	<u>0</u>	<u>33</u>	
P 2 <u>5</u>	<u>33</u>	<u>3</u>	<u>35</u>	<u>5</u>	<u>33</u>	<u>3</u>	<u>36</u>	
P 3 <u>10</u>	<u>33</u>	<u>6</u>	<u>36</u>	<u>10</u>	<u>33</u>	<u>6</u>	<u>40</u>	
P 4 <u>15</u>	<u>33</u>	<u>9</u>	<u>42</u>	<u>15</u>	<u>33</u>	<u>9</u>	<u>43</u>	
P 5 <u>20</u>	<u>33</u>	<u>12</u>	<u>48</u>	<u>20</u>	<u>33</u>	<u>12</u>	<u>46</u>	
P 6 <u>25</u>	<u>33</u>	<u>15</u>	<u>54</u>	<u>25</u>	<u>33</u>	<u>15</u>	<u>50</u>	
P 7 <u>30</u>	<u>33</u>	<u>18</u>	<u>58</u>	<u>30</u>	<u>33</u>	<u>18</u>	<u>54</u>	
P 8		<u>21</u>	<u>64</u>	<u>35</u>	<u>33</u>	<u>21</u>	<u>58</u>	
P 9		<u>24</u>	<u>69</u>	<u>40</u>	<u>33</u>	<u>24</u>	<u>61</u>	
P10		<u>27</u>	<u>75</u>	<u>45</u>	<u>33</u>	<u>27</u>	<u>64</u>	
P11		<u>30</u>	<u>79</u>	<u>50</u>	<u>33</u>	<u>30</u>	<u>69</u>	
P12				<u>55</u>	<u>33</u>	<u>33</u>	<u>71</u>	
P13				<u>60</u>	<u>33</u>	<u>36</u>	<u>75</u>	
P14				<u>65</u>	<u>33</u>	<u>39</u>	<u>78</u>	
P15						<u>42</u>	<u>81</u>	
P16						<u>45</u>	<u>84</u>	
P17						<u>48</u>	<u>87</u>	
P18						<u>51</u>	<u>90</u>	
P19						<u>54</u>	<u>94</u>	
P20						<u>57</u>	<u>96</u>	

TKT # 21732
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WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET 21733

P. O. BOX 793 PHONE 793-7903
GREAT BEND, KANSAS

Formation Sand core Elevation 1647 KB Eff. Pay _____ Ft.

District Pratt Date 11-9-76 Customer Order No. _____

COMPANY NAME Southern State Oil Co.

ADDRESS Box 1965 - Great Bend Kansas Box 286 El Dorado Ks.

LEASE AND WELL NO. _____ COUNTY Kingman STATE Kansas Sec. 34 Twp. 30S Rge. 9W

Mail Inv. To same Co. Name _____ Address _____ No. Copies Requested usual

Mail Charts To same Address _____ No. Copies Requested usual

Formation Test No. #2 O.K. Misrun _____ Interval Tested From 2427 to 2514 Total Depth 2514

Size Main Hole 7 3/8 Rat Hole _____ Conv. B.T. _____ Damaged Yes No Conv. _____ B.T. _____ Damaged Yes No

Top Packer Depth 2422 Ft. Size 6 3/4 Bottom Packer Depth 2427 Ft. Size 6 3/4

Straddle _____ Conv. B.T. _____ Damaged Yes _____ No _____ Packer Depth 2514 Ft. Size 6 3/4

Tool Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 87 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 2442 Ft. Clock No. 6799 Inside _____ Outside _____

Top Make Kuster Cap. 4150 No. 2606 Bottom Make Kuster Cap. 4000 No. 3351

Below Straddle: Depth 2520 Rec. No. 3474 Clock No. 6899 Inside _____ Outside _____

Time Set Packer 6:12 A M

Tool Open I.F.P. From 6:21 A.M. to 7:21 A.M. 1 Hr. _____ Min. From (B) 93 Plugging action P.S.I. To (C) 582 580 P.S.I.

Tool Closed I.C.I.P. From 7:21 A.M. to 8:21 A.M. 1 Hr. _____ Min. (D) 956 Plugging action P.S.I.

Tool Open F.F.P. From 8:21 A.M. to 9:21 A.M. 1 Hr. _____ Min. From (E) 227 Plugging action P.S.I. To (F) 727 716 P.S.I.

Tool Closed F.C.I.P. From 9:21 A.M. to 10:21 A.M. 1 Hr. _____ Min. (G) 966 960 P.S.I.

Initial Hydrostatic Pressure (A) 1204 P.S.I. Final Hydrostatic Pressure (H) 1204 P.S.I. Maximum Temp. 102

INFORMATION

BLOW Strong blow 1st opening Strong & Fair blow on the 2nd opening

Did Well Flow Yes No _____ Recovery Total Ft. 1533ft 1/2 sh gas cut mud.

Reversed Out Yes No _____ Mud Type Dispac Viscosity 40 Weight 9.5 Water Loss 12 cc. Chlorides 12000

EXTRA EQUIPMENT: Type Circ. Sub. pin Safety Joint _____ Jars: Size _____ In. Make _____ Ser. No. _____

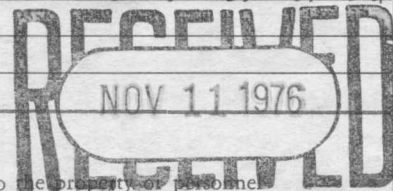
Dual Packers yes Did Packers Hold? yes Did Tool Plug? no Where? _____

DRILLING CONTRACTOR Grave Prg. Co. Length Drill Pipe 2151 ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 FH In.

Length Weight Pipe 305 ft. I.D. Weight Pipe 2.9 In. Tool Joint Size 4 1/2 FH In. Length Drill Collars _____ ft. I.D. Drill Collars 2 1/4 In.

Tool Joint Size 4 1/2 FH Length D.S.T. Tool 119 ft.

Remarks Tool slip on the 1st opening and shut in On the 2nd opening had to reset the hook two times because it slip



INVOICE SECTION

Open Hole Test	\$ 380.00
Straddle Test	\$ 175.00
Jars	\$
Selective Zone	\$ 180.00
Safety Joint	\$
Misrun	\$
Evaluation	\$
Packer	\$ 125.00
Circ. Sub.	\$
Total	\$ 860.00

COMPANY TERMS

Western Testing Co., Inc., shall not be liable for damage of any kind to the property or person of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, or its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made. All charges subject to 10% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By _____ Western Representative Lennie J. Cline
Signature of Customer or his Authorized Representative _____ Operator's Time Frank Shaw Hrs. _____

WESTERN TESTING CO., INC.

Pressure Data

Date 11-9-76 Test Ticket No. 21733
 Recorder No. 2606 Capacity 4150 Location 2442
 Clock No. 6799 Elevation 1647 S.B. Well Temperature 102

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1228</u>	P.S.I.	<u>6:12 A</u>	<u>M</u>
B First Initial Flow Pressure	<u>Plugging Action</u>	P.S.I.	<u>60</u>	<u>Mins 60</u>
C First Final Flow Pressure	<u>580</u>	P.S.I.	<u>60</u>	<u>Mins 60</u>
D Initial Closed-in Pressure	<u>Plugging Action</u>	P.S.I.	<u>60</u>	<u>Mins 60</u>
E Second Initial Flow Pressure	<u>Reset hook</u>	P.S.I.	<u>60</u>	<u>Mins 60</u>
F Second Final Flow Pressure	<u>716</u>	P.S.I.		
G Final Closed-in Pressure	<u>960</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1219</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>12</u> Inc.		Breakdown: <u>20</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>20</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>Plugging Action</u>	<u>0</u>	<u>580</u>	<u>0</u>	<u>Reset hook</u>	<u>0</u>	<u>716</u>
P 2 <u>5</u>	<u>Plugging Action</u>	<u>3</u>	<u>777</u>	<u>5</u>	<u>"</u>	<u>3</u>	<u>892</u>
P 3 <u>10</u>	<u>"</u>	<u>6</u>	<u>834</u>	<u>10</u>	<u>"</u>	<u>6</u>	<u>898</u>
P 4 <u>15</u>	<u>"</u>	<u>9</u>	<u>861</u>	<u>15</u>	<u>Plugging Action</u>	<u>9</u>	<u>916</u>
P 5 <u>20</u>	<u>"</u>	<u>12</u>	<u>875</u>	<u>20</u>	<u>Plugging Action</u>	<u>12</u>	<u>925</u>
P 6 <u>25</u>	<u>"</u>	<u>15</u>	<u>Plugging Action</u>	<u>25</u>	<u>645</u>	<u>15</u>	<u>940</u>
P 7 <u>30</u>	<u>"</u>	<u>18</u>	<u>Action</u>	<u>30</u>	<u>659</u>	<u>18</u>	<u>954</u>
P 8 <u>35</u>	<u>"</u>	<u>21</u>	<u>"</u>	<u>35</u>	<u>673</u>	<u>21</u>	<u>962</u>
P 9 <u>40</u>	<u>"</u>	<u>24</u>	<u>"</u>	<u>40</u>	<u>680</u>	<u>24</u>	<u>960</u>
P10 <u>45</u>	<u>"</u>	<u>27</u>	<u>"</u>	<u>45</u>	<u>Reset hook</u>	<u>27</u>	<u>958</u>
P11 <u>50</u>	<u>"</u>	<u>30</u>	<u>"</u>	<u>50</u>	<u>"</u>	<u>30</u>	<u>959</u>
P12 <u>55</u>	<u>"</u>	<u>33</u>	<u>Reset hook</u>	<u>55</u>	<u>711</u>	<u>33</u>	<u>959</u>
P13 <u>60</u>	<u>580</u>	<u>36</u>	<u>"</u>	<u>60</u>	<u>716</u>	<u>36</u>	<u>959</u>
P14		<u>39</u>	<u>"</u>	<u>65</u>		<u>39</u>	<u>959</u>
P15		<u>42</u>	<u>"</u>	<u>70</u>		<u>42</u>	<u>959</u>
P16		<u>45</u>	<u>Plugging Action</u>	<u>75</u>		<u>45</u>	<u>959</u>
P17		<u>48</u>	<u>Action</u>	<u>80</u>		<u>48</u>	<u>959</u>
P18		<u>51</u>	<u>"</u>	<u>85</u>		<u>51</u>	<u>960</u>
P19		<u>54</u>	<u>"</u>	<u>90</u>		<u>54</u>	<u>960</u>
P20		<u>57</u>	<u>"</u>			<u>57</u>	<u>960</u>
		<u>60</u>	<u>"</u>			<u>60</u>	<u>960</u>



Home Office: Wichita, Kansas 67201
 P. O. Box 1599 (316) 838-0601

Company Southern States Oil Company Lease & Well No. Swingle A #1

Elevation 1647 Kelly Bush. Formation Indian Cave Effective Pay - Ft. Ticker No. 21733

Date 11-9-76 Sec. 34 Twp. 30S Range 9W County Kingman State Kansas

Test Approved by _____ Western Representative Lonnie J. Cline

Formation Test No. 2 O.K. Misrun Interval Tested From 2427' to 2514' Total Depth 2514'

Size Main Hole 7 7/8 Rat Hole Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No

Top Packer Depth 2422 Ft. Size 6 3/4 Bottom Packer Depth 2427 Ft. Size 6 3/4

Straddle Conv. B.T. Damaged Yes No Packer Depth 2514 Ft. Size 6 3/4

Tool Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 87 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 2442 Ft. Clock No. 6799 Depth 2445 Ft. Clock No. 8475

Top Make Kuster Cap. 4150 No. 2606 ~~Inside~~ Outside Bottom Make Kuster Cap. 4000 No. 3351 ~~Inside~~ Outside

Below Straddle: Depth 2520 Rec. No. 3474 Clock No. 6899 ~~Inside~~ Outside Depth - Ft. Rec. No. - Clock No. - ~~Inside~~ Outside

Time Set Packer 6:12A. M Plugging

Tool Open I.F.P. From 6:21A M. to 7:21A M. - Hr. 60 Min. From (B) Action P.S.I. To (C) 580 P.S.I.

Tool Closed I.C.I.P. From 7:21A M. to 8:21A M. - Hr. 60 Min (D) Plugging Action P.S.I.

Tool Open F.F.P. From 8:21A M. to 9:21A M. - Hr. 60 Min. From (E) Reset Hook P.S.I. To (F) 716 P.S.I.

Tool Closed F.C.I.P. From 9:21A M. to 10:21A M. - Hr. 60 Min. (G) 960 P.S.I.

Initial Hydrostatic Pressure (A) 1228 P.S.I. Final Hydrostatic Pressure (H) 1219 P.S.I. Maximum Temp. 102

INFORMATION

BLOW Strong blow throughout initial flow period. Strong decreasing to fair during final flow period.

Did Well Flow - Yes No Recovery Total Ft. 1533' of very slightly gas cut mud.

Reversed Out - Yes No Mud Type Drispac Viscosity 40 Weight 9.5 Water Loss 12 cc. Chlorides 12,000 PPM

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint - Jars: Size - In. Make - Ser. No. -

Dual Packer Did Packers Hold? Did Tool Plug? No Where? -

DRILLING CONTRACTOR Graves Drlg. Co., Inc. Length Drill Pipe? 2151 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 FH In.

Length Weight Pipe 305 Ft. I.D. Weight Pipe 2.9 In. Tool Joint Size 4 1/2 FH In. Length Drill Collars - Ft. I.D. Drill Collars 2 1/4 In.

Tool Joint Size 4 1/2 H-90 Length D.S.T. Tool 119 Ft.

Remarks: Reset the hook twice before it would hold.

WESTERN TESTING CO., INC.

Pressure Data

Date 11-9-76 Test Ticket No. 21733
 Recorder No. 2606 Capacity 4150 Location 2442 Ft.
 Clock No. 6799 Elevation 1647 Kelly Bushing Well Temperature 102 °F

Point	Pressure		Time Given	Time Computed
A. Initial Hydrostatic Mud	<u>1228</u> P.S.I.	Open Tool	<u>6:12A.</u> M	
B. First Initial Flow Pressure	<u>Plugging Action</u> P.S.I.	First Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
C. First Final Flow Pressure	<u>580</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
D. Initial Closed-in Pressure	<u>Plugging Action</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E. Second Initial Flow Pressure	<u>Reset Hook</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
F. Second Final Flow Pressure	<u>716</u> P.S.I.			
G. Final Closed-in Pressure	<u>960</u> P.S.I.			
H. Final Hydrostatic Mud	<u>1219</u> P.S.I.			

PRESSURE BREAKDOWN

Point Mins.	Press.	Initial Shut-In Breakdown: <u>20</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	Point Minutes	Press.	Second Flow Pressure Breakdown: <u>12</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Point Minutes	Press.	Final Shut-In Breakdown: <u>20</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	Point Minutes	Press.
0	<u>Plugging Action</u>	0	<u>580</u>	0	<u>Reset Hook</u>	0	<u>716</u>	0		
5	<u>Plugging Action</u>	3	<u>777</u>	5	<u>Reset Hook</u>	3	<u>892</u>	3		
10	<u>Plugging Action</u>	6	<u>834</u>	10	<u>Reset Hook</u>	6	<u>898</u>	6		
15	<u>Plugging Action</u>	9	<u>861</u>	15	<u>Plugging Action</u>	9	<u>916</u>	9		
20	<u>Plugging Action</u>	12	<u>875</u>	20	<u>Plugging Action</u>	12	<u>925</u>	12		
25	<u>Plugging Action</u>	15	<u>Plugging Action</u>	25	<u>645</u>	15	<u>940</u>	15		
30	<u>Plugging Action</u>	18	<u>Plugging Action</u>	30	<u>659</u>	18	<u>954</u>	18		
35	<u>Plugging Action</u>	21	<u>Plugging Action</u>	35	<u>673</u>	21	<u>962</u>	21		
40	<u>Plugging Action</u>	24	<u>Plugging Action</u>	40	<u>680</u>	24	<u>960</u>	24		
45	<u>Plugging Action</u>	27	<u>Plugging Action</u>	45	<u>Reset Hook</u>	27	<u>958</u>	27		
50	<u>Plugging Action</u>	30	<u>Plugging Action</u>	50	<u>Reset Hook</u>	30	<u>959</u>	30		
55	<u>Plugging Action</u>	33	<u>Reset Hook</u>	55	<u>711</u>	33	<u>959</u>	33		
60	<u>580</u>	36	<u>Reset Hook</u>	60	<u>716</u>	36	<u>959</u>	36		
		39	<u>Reset Hook</u>			39	<u>959</u>	39		
		42	<u>Reset Hook</u>			42	<u>959</u>	42		
		45	<u>Plugging Action</u>			45	<u>959</u>	45		
		48	<u>Plugging Action</u>			48	<u>959</u>	48		
		51	<u>Plugging Action</u>			51	<u>960</u>	51		
		54	<u>Plugging Action</u>			54	<u>960</u>	54		
		57	<u>Plugging Action</u>			57	<u>960</u>	57		
		60	<u>Plugging Action</u>			60	<u>960</u>	60		

