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17. Percenter proportion on courtered ortentions (Clearly state all perthent details, and give pertinented date of starting and perthents of this work.)* 4-19-86 RU csg. crew & ran 5-1/2" 17# csg.; TD 11,392'. Ran 5-1/2" 17# csg. as follows: 29 jts. 5-95 17# LT&C - 1204.88'; 291 jts. N-80 17# LT&C - 10232.42' = 320 jts. total footage 11437.30'. Set @ 11,391' (1 ft. off btm.). Ran #1 btm. D.V. tool @ 10187.92'; Ran #2 top D.V. tool @ 7005.59'. Completed cmt. job in 3 stages. Ran 58 cent. spaced throughout well. Stage #1: 20 bbls. mud flush; 300 sx. Class "H" with 5/10 of 17 Halad-22A, 4/10 of 17 CFR-3 and 5 lbs. KCL per sx. Displaced w/30 bbls. 27 KCL water and 233 bbls. drlg. mud. Plug dn. @ 12:15 a.m. Opened D.V. tool w/1800 PSI, circ. 6 hrs. Stage #2: 20 bbls. mud flush, 650 sx. 50/50 POZ Mix "A" and Class "H" with 5/10 of 17 Halad-9 and 3/10 of 17 CFR-3 per sx. Displaced w/80 bbls. 27 KCL water and 157 bbls. drlg. mud. Plug dn. @ 7:45 a.m. Closed D.V. tool w/2000 PSI. D.V. tool holding. Dropped bomb open tool w/1700 PSI. Circ. 5 hrs. Stage #3: 20 bbls. mud flush, 1560 sx. 50/50 POZ Mix "A" and Class "H" with 5/10 salt and 3/10 of 17 CFR-3 per sx. Displaced w/163 bbls. 27 KCL water. Bumped D.V. tool e 2:30 P.M. w/all float equipment holding. Set slips and jet pits. Rel. rig @ 8:30 P.M. 4-18-86. WOC and set anchors. 4-26-86 Started drilling @ 11,178' dn. to 11,356' as follows: Bottom Hole assembly @ 197.98'; 357 jts. + 20' (358 jts. in hole) 11,158'; New plug back depth 11,356'. Displaced hole with 245 bbls. 27 KCL water. TOH to log. Logged well throughout night. SD pulling unit. Logger's TD - 11,354'. CONTINUED **Continued Parks of lederal or State office back)** **Continued Parks of lederal or State office back)** **Production Clerk** **DATE May 21, 1986** **Continued Parks of lederal or State office back)** **Production Clerk** **DATE May 21, 1986** **Production Clerk** **Parks of lederal or State office back)** **Parks of lederal or State office back)** **Parks of lederal or State office bac	•	1	CHANGE PLANS			ults of multip	ie completton	on Well		
4-19-86 RU csg. crew & ran 5-1/2" 17# csg.; TD 11,392'. Ran 5-1/2" 17# csg. as follows: 29 jts. 5-95 17# LT&C - 1204.88'; 291 jts. N-80 17# LT&C - 10232.42' = 320 jts. total footage 11437.30'. Set @ 11,391' (1 ft. off btm.). Ran #1 btm. D.V. tool @ 10187.92'; Ran #2 top D.V. tool @ 7005.59'. Completed cmt. job in 3 stages. Ran 58 cent. spaced throughout well. Stage #1: 20 bbls. mud flush; 300 sx. Class "H" with 5/10 of 1% Halad-22A, 4/10 of 1% CFR-3 and 5 lbs. KCL per sx. Displaced w/30 bbls. 2% KCL water and 233 bbls. drlg. mud. Plug dn. @ 12:15 a.m. Opened D.V. tool w/1800 PSI, circ. 6 hrs. Stage #2: 20 bbls. mud flush, 650 sx. 50/50 POZ Mix "A" and Class "H" with 5/10 of 1% Halad-9 and 3/10 of 1% CFR-3 per sx. Displaced w/80 bbls. 2% KCL water and 157 bbls. drlg. mud. Plug dn. @ 7:45 a.m. Closed D.V. tool w/2000 PSI. D.V. tool holding. Dropped bomb open tool w/1700 PSI. Circ. 5 hrs. Stage #3: 20 bbls. mud Propped bomb open tool w/1700 PSI. Circ. 5 hrs. Stage #3: 20 bbls. mud flush, 1560 sx. 50/50 POZ Mix "A" and Class "H" with 5 lbs. salt and 3/10 of 1% CFR-3 per sx. Displaced w/163 bbls. 2% KCL water. Bumped D.V. tool @ 2:30 P.M. w/all float equipment holding. Set slips and jet pits. Rel. rig @ 8:30 P.M. 4-18-86. WOC and set anchors. 4-26-86 Started drilling @ 11,178' dn. to 11,356' as follows: Bottom Hole assembly @ 197.98'; 357 jts. + 20' (358 jts. in hole) 11,158'; New plug back depth 11,356'. Displaced hole with 245 bbls. 2% KCL water. TOH to log. Logged well throughout night. SD pulling unit. Logger's TD - 11,354'. CONTINUED - CONTINUED - Production Clerk DATE May 21, 1986	(Other)				Completion or Rec	Ombienon web	OLE AND LOGIC	A		
## A-19-86 RU csg. crew & ran 5-1/2" 17# csg.; TD 11,392'. Ran 5-1/2" 17# csg. as ## follows: 29 jts. S-95 17# LT&C - 1204.88'; 291 jts. N-80 17# LT&C - 10232.42' = 320 jts. total footage 11437.30'. ## Set @ 11,391' (1 ft. off btm.). Ran #1 btm. D.V. tool @ 10187.92'; Ran #2 top D.V. tool @ 7005.59'. Completed cmt. job in 3 stages. Ran 58 cent. ## spaced throughout well. Stage #1: 20 bbls. mud flush; 300 sx. Class "H" with 5/10 of 17 Halad-22A, 4/10 of 17 CFR-3 and 5 lbs. KCL per sx. Displaced w/30 bbls. 27 KCL water and 233 bbls. drlg. mud. Plug dn. @ 12:15 a.m. ## Opened D.V. tool w/1800 PSI, circ. 6 hrs. Stage #2: 20 bbls. mud flush, 650 sx. 50/50 POZ Mix "A" and Class "H" with 5/10 of 17 Halad-9 and 3/10 of 17 CFR-3 per sx. Displaced w/80 bbls. 2% KCL water and 157 bbls. drlg. ## mud. Plug dn. @ 7:45 a.m. Closed D.V. tool w/2000 PSI. D.V. tool holding. ## Dropped bomb open tool w/1700 PSI. Circ. 5 hrs. Stage #3: 20 bbls. mud flush, 1560 sx. 50/50 POZ Mix "A" and Class "H" with 5 lbs. salt and 3/10 of 1% CFR-3 per sx. Displaced w/163 bbls. 2% KCL water. Bumped D.V. tool @ 2:30 P.M. w/all float equipment holding. Set slips and jet pits. Rel. ## rig @ 8:30 P.M. 4-18-86. WOC and set anchors. ## Started drilling @ 11,178' dn. to 11,356' as follows: Bottom Hole assembly @ 197.98'; 357 jts. + 20' (358 jts. in hole) 11,158'; New plug back depth	17. DESCRIBE P	ROINSED OR COMPLETED OFE	RATIONS (Clearly stonally drilled, give	ate all pertinent de aubsurface location	s and measured and true ve	rtical depths	for all marke	rs and gones perti-		
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mud. Plug dn. @ 7:45 a.m. Closed D.V. Color W/2000 Tal. Dropped bomb open tool w/1700 PSI. Circ. 5 hrs. Stage #3: 20 bbls. mud flush, 1560 sx. 50/50 POZ Mix "A" and Class "H" with 5 lbs. salt and 3/10 of 1% CFR-3 per sx. Displaced w/163 bbls. 2% KCL water. Bumped D.V. tool @ 2:30 P.M. w/all float equipment holding. Set slips and jet pits. Rel. rig @ 8:30 P.M. 4-18-86. WOC and set anchors. 4-26-86 Started drilling @ 11,178' dn. to 11,356' as follows: Bottom Hole assembly @ 197.98'; 357 jts. + 20' (358 jts. in hole) 11,158'; New plug back depth 11,356'. Displaced hole with 245 bbls. 2% KCL water. TOH to log. Logged well throughout night. SD pulling unit. Logger's TD - 11,354'. CONTINUED - 15. i hereby certify that the foregoing is true and correct SIGNED Lois.N. Brown TITLE Production Clerk DATE May 21, 1986 APPROVED BY CONDITIONS OF APPROVAL, IF ANY: APPROVED BY CONDITIONS OF APPROVAL, IF ANY:	•									
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of 1% CFR-3 per sx. Displaced W/163 bbls. 2% Red Water @ 2:30 P.M. w/all float equipment holding. Set slips and jet pits. Rel. rig @ 8:30 P.M. 4-18-86. WOC and set anchors. %-26-86 Started drilling @ 11,178' dn. to 11,356' as follows: Bottom Hole assembly @ 197.98'; 357 jts. + 20' (358 jts. in hole) 11,158'; New plug back depth 11,356'. Displaced hole with 245 bbls. 2% KCL water. TOH to log. Logged well throughout night. SD pulling unit. Logger's TD - 11,354'. CONTINUED - **CONTINUED -** **CONTINUED -** **This apace for Tederal or State office Dise)* APPEOVED BY										
### Production Clerk 2:30 P.M. w/all float equipment holding. Set strps and jet productions of Approval, If any: 4-26-86 Started drilling @ 11,178' dn. to 11,356' as follows: Bottom Hole assembly @ 197.98'; 357 jts. + 20' (358 jts. in hole) 11,158'; New plug back depth										
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@ 197.98'; 357 jts. + 20' (358 jts. in note) 11,150, to log. Logged 11,356'. Displaced hole with 245 bbls. 2% KCL water. TOH to log. Logged well throughout night. SD pulling unit. Logger's TD - 11,354'. CONTINUED - CONTINUED - CONTINUED - TITLE Production Clerk Lois N. Brown This apace for Federal or State office use) APPEGVED BY CONDITIONS OF APPROVAL IF ANY: APPEGVED BY CONDITIONS OF APPROVAL IF ANY:						Bottom	Hole ass	embly		
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SIGNED		well throughout	t night. SD	pulling un	II. Logger 5 12	22,00	•			
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APPROVED BY CONDITIONS OF APPROVAL, IF ANY:	is, i hereby (tertify that the foregoing	is true and correct		maduation Clark	,	DATE May	21, 1986		
APPROVED BY	SIGNED.	Join M. B	1/ new)		roduction clerk					
APPROVED BY CONDITIONS OF APPROVAL, IF ANY:		LOIS.N. Brown								
CONDITIONS OF APPROVAL, IF ANY:				orithia CRLS	COSD		DATE			
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CONFIDENTIAL

MURPHY OPERATING CORPORATION

MAILING ADDRESS P. D. DRAWER 2648

SOUTH CORBIN FEDERAL NO. 1

TELEPHONE 505 623-7210

ROSWELL PETROLEUM BUILDING

ROSWELL, NEW MEXICO 88201

Page 2 of Form 3160-5 - Sundry Notices and Reports on Wells Logging all night to 11:00 A.M. this date. Logger's TD - 11,354'. Finished 4-27-86 running Cmt. Bond Log. RU lubricators and perforated as follows:

10,886', 10,887', 10,890', 10,894', 10,897', 10,898' - Run #3; 10,901', 10,906', 10,911', 10,912', 10,914', 10,915', 10,916' - Run #2; 10,917', 10,918', 10,919', 10,920', 10,921', 10,922', 10,923', 10,924', 10,925', 10,926', 10,927', 10,928', 10,929', 10,930', 10,931', 10,932' -Run #1.

RD loggers and TIH with RTTS to 10,943'. Spotted with 3 bbls. 3% MCA. Layed dn. 6 jts. and set RTTS @ 10,724' with tail pipe at 10,749'. Break dn. with 3900 PSI. Completed acid job as follows:

> 5,000 gals. Total acid pumped 50,000 SCF Total N2 pumped dropped 80 ball sealers - well did not ball off

2.2 BPM Average Fluid pump rate -.7 BPM Average N2 rate -2.9 BPM Combined rate N2 & fluid -3.4 BPM Max. rate

5,000 PSI Average pressure -5,500 PSI Maximum pressure -4,900 PSI Shut in Pressure -

5 min. @ 4600 PSI, 10 min. @ 4500 PSI, 15 min. @ 4400 PSI. 162 bbls. treating fluid to recover. Flowing well back to frac tank. SDFN.

RU loggers and logged. TIH & set CIBP @ 10,764'. Put 35 sacks cmt. on top 5-1-86 of BP. SDFN.

RU Lubricator. TIH to perforate as follows: 1 JSPF 10,559', 10,560', 5-2-86 10,562.5', 10,563.5', 10,565', 10,571', 10,572', 10,578' and 10,579'.
TOH w/perforating guns, all guns fired okay. RD loggers. PU RTTS and TIH to 10,582'. Spotted acid at 10,582'. Layed down five (5) joints. Set KTTS packer at 10,406'. Tailpipe at 10,439'. Perforation broke down with 2,500 psi. Completed acid job as follows: 68 Bbls. of 15% MCA. Dropped 25 ball sealers, well did not ball off. Flushed with 63 bbls. 2% KCL water. Average rate 2.6 bbls./min. Maximum rate 5 bbls./minute. Average 4,745 psi. Maximum 6,000 psi. ISIP 2800. 2 minutes well on vacuum.

CONTINUED -

Meceniario 1986

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MAILING ADDRESS P. O. DRAWER 2648

ROSWELL PETROLEUM BUILDING

TELEPHONE 505 623-7210

ROSWELL, NEW MEXICO 88201

Page 3 of Form 3160-5 - Sundry Notices and Reports on Wells SOUTH CORBIN FEDERAL NO. 1

SITP for 28 hours - 0 psi on tubing. Nipple-down wellhead. Install BOP. TOH to perforate. Perforate as follows: 1 J.S.P.F. 10,425', 10,427', 10,430', 10,432', 10,436', 10,438.5', 10,443'. TOH with perforating gun, all guns fired okay. TIH with RBP and set at 10,486'. Set pkr. above bridge plug & pressured to 1,100 psi - everything okay. Spotted 2 bbls. 15% MCA at 10,447'. Layed down 4 jts. 2-7/8" tbg. Set RTTS pkr. @ 10,319'. SDFN.

5-6-86 Unseat pkr. Nippled dn. WH. PU 4 jts. 2-7/8" tbg. and 18' of subs. Reset pkr. and test retrieval to 1000 psi - o.k. LD 4 jts. tbg. and 18' subs. Reset RTTS pkr. @ 10,319'. Completed acid job as follows:

45 bbls. of 15% MCA, flushed w/62 bbls. of 2% KCL water. Dropped 20 ball sealers—well balled off. Had to push balls out of perfs with RTTS pkr. Avg rate: 4 BPM, Max rate: 4.5 BPM Avg pressure: 4500 psi, Max pressure: 6400 psi SI pressure: 2500 psi, 3 minutes well on vacuum RU and started swabbing on well. Had 350 bbls to rec. Rec. 142 bbls. SDFN.

Nippled dn. WH. Nippled up BOP. Rel. RTTS pkr. PU 5 jts. 2-7/8" tbg. TIH to RBP. Rel. RBP and TOH. Layed dn. RTTS and RBP. PU cmt. retainer and setting tool. TIH to 10,457'. Pressure test tbg. to 3000 psi. Set retainer and completed squeeze job as follows:

150 sx. Class "H" with 6/10 of 1% Halad 9 mixed @ 15.6 PPG Mixed 50 sx. Class "H" Neat @ 15.8+ PPG Displaced with 73 bbls. 2%, overflushed to perfs.

Tried to pull out cmt. retainer and could not. Cmt. worked back through cmt. retainer. Pumped dn. tbg. w/38 bbls. Pumped in btm. perfs. @ 1.5 BPM @ 1000 psi. Loaded backside with 15 bbls. 2% KCL water. Pressured up to 1500 psi and could not pump into top perfs. Called Wireline truck and ran Freepoint on tbg. Tbg. free @ 9,931'. TOH w/Freepoint. TIH w/chemical cutters. Cut tbg. off @ 9,902'. Leaving 17.8 jts. of tbg. in hole (558' + 6.57' of retainer setting tool). Displaced hole w/2% KCL water @ 9,900'. TOH, stand back 120 stands. Layed dn. 76 jts. 2-7/8" tbg. N-80 6.50#. SDFN.

RU Wireline trucks. TIH to 9,850'. Set CIBP. Dumped 30 sx. Class "C". Cmt. on top of CIBP. TIH & perf. as follows: 7337', 7338', 7339', 7344', 7346', 7347', 7349' and 7355'. 8 holes per jet shot. RD loggers. PU RTTS pkr. TIH to 7356.73'. Spotted 3 bbls. 15% MCA. Layed dn. 8 jts. 2-7/8" tbg. Set RTTS @ 7191.23'. Break dn. perfs. with 4000 psi. Swb. tbg. dn. to seat nipple. Completed acid job as follows:

CONTINUED -

CONFIDENTIAL

MURPHY OPERATING CORPORATION

MAILING ADDRESS P. Q. DRAWER 2648

ROSWELL PETROLEUM BUILDING

TELEPHONE 505 623-7210

ROSWELL, NEW MEXICO 88201

Page 4 of Form 3160-5 - Sundry Notices and Reports on Wells

SOUTH CORBIN FEDERAL NO. 1

CONTINUED -5-12-86

> 44.6 bbls. 15% MCA dropped 20 ball sealers (well did ball off) Displaced with 45.5 bbls. of 2% KCL water.

Bbls. to rec. - 93 bbls. Instant SI press. @ 2350 psi. After 5 min. 2200 psi., after 10 min. 2100 psi., and after 15 min. 2000 psi.

Average pressure 3000 psi Maximum pressure 3800 psi Average rate of 4 BPM Maximum rate of 4.5 BPM

Blowed well dn. to zero pressure. RU swb. line and swabbed back 64 bbls. of acid water. Have 29 bbls. to rec. No oil, no gas. SDFN.

RU frac truck (Halliburton). Made 2 swb. runs. Installed tree saver and 5-14-86 frac well as follows:

> 4000 gals. PAD 30# Cross-link gel Step 1:

2000 gals. 1# 100 Mesh Sand Step 2:

2000 gals. 1# 20-40 Mesh Sand Step 3:

2000 gals. 2# 20-40 Mesh Sand Step 4:

4000 gals. 3# 20-40 Mesh Sand 4000 gals. 4# 12-20 Mesh Sand Step 5:

Step 6:

Flush busted btm. perfs. 1900 gals. 10# gel with 2% KCL water Step 7:

474 bbls. load water to recover Step 8:

Average rate 8 BPM, Maximum rate 8.2 BPM, Average pressure 3300#, Maximum pressure 4400#. SI pressure 3370 psi, after 5 min. 3180 psi, after 10 min. 3110 psi, after 15 min. 3060 psi. Waited 6 hrs. Pressure dropped 1030 psi. Started flowing well back on 16/64" choke. Checked well at 10:30 P.M. well flowing with 20 psi. Recovered 58 bbls., 416 bbls. left to recover.

<u>.</u>	"CONFIDENTIAL"	Form approved. Budget Bureau No. 1004-0135			
m 3160 (S)	UNITE STATES SUBMIT IN TRIPLICY	Expires August 31, 1985			
ovember 1983	DEPARTMENT L. THE INTERIOR verse side)	5. LEASE DESIGNATION AND BLEIAL NO. NM-61604			
Sometry A-22	BUREAU OF LAND MANAGEMENT	6. IF INDIAN, ALLOTTEE OR TRIBE MAME			
	THE HOTICES AND REPORTS ON WELLS	0. 10 1			
450-0-4	SUNDRY NOTICES AND INC. Buse this form for proposals to drill or to deepen or plug back to a different reservoir. Buse this form for proposals.)				
(The nor	THE "APPLICATION FOR PERMIT— 107 SUCH PROPERTY	7. UNIT AGREEMENT NAME			
Marie K	WELL LJ OTHER	S. HARM OR LEASE HAME			
2. MANA OF OPE	Y OPERATING CORPORATION	South Corbin Federal .			
	OPERATOR	9. WELL NO.			
P. O.	Drawer 2648, Roswell, New Mexico 66201	10. FIELD AND POOL, OR WILDCAT			
LOCATION OF	WELL (Report location clearly and in accordance with any State requirements."				
266 T120 1034	(* 1) Below.)	Undesignated 11. BBC., T., E., M., OR BLK. AND			
455'	FNL & 2310' FEL, (Unit Ltr. B) Section 20, T-18S, R-33E	SURVEY OR AREA			
		Sec. 20, T-18S, R-33E			
	15. BLEVATIONS (Show whether Dr. RT. CR. etc.)	12. COUNTY OR PARISH 13. STATE			
14. PERMIT NO.	3842° G.R., 3860° K.B.	Lea New Mexico			
		Caher Data			
15.	Check Appropriate Box To Indicate Nature of Notice, Report, or	QUBRI ESPORT OF:			
	MOTICE OF INTENTION TO:				
TEST WATE	B SHUT-OFF FULL OR ALTER CASING WATER SHUT-OFF -	REPAIRING WELL			
PRACTURE T	REAT MULTIPLE COMPLETE FRACTURE TREATMENT -	ALTERING CABING ABANDONMENTS			
SHOOT OR A		and casing x			
REPAIR.WEI	CHANGE PLANS	ts of multiple completion on Well spletion Report and Log form.)			
(Other)					
29226G	Molk' II Mell is directioned, and	leal depths for all markers and tones perti-			
nent to th	is work.)	•			
2-27-86	Moved in rotary rig.	•			
2-28-86	Finished rigging up rotary rig. Spud-in @ 6:15 P.M. o	n 2-28-86.			
2-20-00					
3-1-86	Cementing; Formation - water sand; drilled 382' 5-1/2	9.4# Vis. 38. ph 9.			
	TOH to run 13-3/8" pipe. Dev. survey 1/2 e 302, net	circ. 1/2 hr. & cmt.			
	100 - 01 P 11/7/ PALL BILLS LIGHT DEL	OAT LICOUIL			
	as follows: 420 sx. Class C w/2% Chor, plan as follows: 420 sx. Cl	xs. to pit. Plugged			
•	dn. @ 5:15 a.m. on 3-1-86.				
3-5-86	Nippled up. Formation - Anhydrite and Dolomite, TD 29	32'. Mud type -			
J 2: 33					
	& weld on bradenhead. RU csg. crew a ran 70 jcs. 0 57	@ 2931' (1' off btm.).			
	Circ. to cmt. Cmt. w/1165 sx. tight wt. 111 to said the Flocell. Tailed in w/150 sx. Class C w/2% CACl. Circ Flocell. Tailed in w/150 sx. Class C w/2% CACl. Circ	110 sx. to pit. Plug			
•	dn @ 4:15 P.M. Set slips, cut off & nippled up. WOC.	h sha sacoad			
		GWQ.			
		R 17 1986			
	- I corport				
	- $ -$), NEW DATE Garch 12, 1986			
	Lois N. Brown				
This space	e for Federal or State office one)				
4 MO 2022	TITLE	DATE			
CONDITIO	NS OF APPROVAL, IF ANY:				

*See Instructions on Reverse Side

1. In 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

ARCEIVED 1986