WELL COMPLETION REPORT-18-4 LOG AND HISTORY PROPERTY Meredith THE CALIFORNIA COMPANY 1 WELL NO. Commenced drilling with rotary tools in 24" hole. using 6" drill pipe, on January 13, 1931. 20' Caliche 0 On January 13, 1931, cemented 20" casing at 20' for conductor. CABING DETAIL: All 20", G.D., 90%, 6 throad, National DBB, lapweld casing. Drilled ahead in 18" hole, using 6" drill pipe. 20 82 Sand 162 Sand & boulders 82 284 Sand rock 162 285 Hard sand rock 284 285 290 Jand 891 Hard sand rock 290 Ran 13-3/8" easing but stopped at 190'. Fulled casing out and reamed hole from 111' to 291' with 18" rock bit. On January 16, 1931, commuted 13-3/8" casing at 291' with 200 sacks of El Toro Oil Cell Special Cement, none treated. Averaged 43% slurry, Halliburton Process, using Perkings top plug; no pressures recorded. Circulation maintained while computing. 40 minutes mixing and pumping coment into place. CASING DETAIL: All 13-5/8", 54.5%, 8 thread, API, Spang & Chalfant "Standard" seamless casing with Texas Patters Space. Stood cemented 3 days. On January 19, 1951, drilled out plug and common from 285' to 291'. Frilled shead in 12" hole, using 6" drill pipe. 310 Hard sendy lime 291 517 Red bods 310 772 Brokon red beds 517 San acid bettle at 517'. Angular deviation of hole

A A

in the second second

772 860 Red rock and shale

2 degrees at 510'.

860 885 Sandy lime

P.RO. 16-4 3M-5-30

WELL COMPLETION REPORT-18-4 LOG AND HISTORY

2.

WELL NO. PROPERTY Statist COMPANY Companyed willing with a property work in 24" holes. The state of the second of the second Maria Maria G a Java et 12, 1901, contracted 201 au ter 1 de 12 1991 5 6 1 C 10 1 A where the a second we get here the the 1488 · 633 STUDIE SALE SEL 235 武物(T) (2)(G) (A)鐵路 085 WERE CUS 627. 建草物化 和调制者 「此」的一个人的是 512 · · es lawy to even an and an seek a signed of 320° a laber a clear as we were sole from 111° to \$91° at 10 1°C real 216 and the second soto anti-anti-al al al al all destato anti-anti-anti-anti-ommento de altere, dallitate con freeders, cato i macanti-anti-oldet au arconoren recorred. Ellen stato accos from the يري منهو مورية العراقة العربية. مريد 1996 - مالية العربية العرب ADAMA COLORADO ASACO 114 Mar adama da mar angar 5 T una Van Maria de Carlande de Carla and a second to a construction of the second s and a said to be the main of the destand the little of the ji ^k Brits and inter-340 1 the sec $\nabla f \gtrsim$. . 7988 (1998) (1982) (1984) 018 terres washing and a second second second second CICIS DE ABRITRE O 「日本山山」「「「「「日」」「日」」「「「夏都」」

PROPERTY Meredita THE CALIFORNIA COMPANY WELL NO. 1 Ran noid bottle. Angular deviation of hole 2 degrees at 880'. Red rook & shale 885 905 948 Red rock with streaks of red shale 903 992 Red rock and shale 948 1070 Red rock 992 1098 Hard rod rock 1070 1158 Red rock 1092 1172 Hed rook with streaks of red shale 1152 1172 1234 Red rock and shale 1256 Broken red rock 1234 1278 Hard red rock 1385 Hard red rock and shale 1856 1272 1535 Red rock 1568 Anhydrite with streaks of red rock 1402 Bard anhydrite TOP ANHYDRITE 1335' 1525 1335 1388 1435 Anhydrite and rod rock 1402 1452 3alt TOP SALT 1485' 1455 1483 Anhydrite & streaks of salt 1452 1494 Red rock & lime shells 1485 1544 Red rock, anhydrite with streaks of salt 1494 1585 Anhydrite with streaks of salt 1544 Ren acid bottle at 1544' and found deviation 1 degree at 1500' 1610 Salt & anhydrite 1585 1638 Anhydrite & trace of lime 1610 1638 1678 Balt & anhydrite 1712 Salt and anhydrite, trace of potash 1678 1744 Red rock and salt 1712 1803 Salt & anhydrite 1744 1643 Salt with streaks of anhydrite and potash 1803 2662 Salt, potash and anhydrite 1843 Ran seid bottle. Angular deviation 3-1/2 degrees Ran acid bottle. Lost container, which was recovered. at 2000*. Angular deviation 5 degrees at 2500'. Depth corrected from 2595 to 2594 feet by Halliburton Measuring Line. Anhydrite with streaks of salt 2690 2562 Salt, potash and anhydrite 2690 2890 2917 Anhydrite with trace of lime 2890 2980 Anhydrite with streaks of gray lime 2995 Anhydrite with streaks of brown lime 8917 2980 3001 Anhydrite and brown line 2995

3

WELL COMPLETION REPORT-18-4

COMPANY 6 100 74 WELL NO. 🚶 PROPERTY and the second s with the same state of the 1238 人们,"是一个美丽" STAL STA A the second CAS**I** - NG1 Jak and 117 REALE LIPP ANDE LE isti tell See her here 1.26.5 And her state and the second LOD LODI NOPE SPE CCCL and the second of the second sec - C-2-1 Gial and Mars 10 and 1 die 11 m. Mai 2001 I GOUT DES GAR ON PROVIDENT DES <u>_____</u> TOOL STOL STOL COAL Starf . and a constant of the second o allana will a voor how good any A SHALL FOR ANT FIRE TO PREMARE ADDITION AND A STATE where he adapted there beletation and 3244 - 1997年1月1日(1997年1月1日)(1998年)「李莽**公正**」(1996年)(1997年) teria Staterios di Ciel seci the and the strength of the second arren tin Stol 1 121. 2 dealer in contrar all the same stre 1712 × 1 建蓄露后 化对数 袋齿轮的 合語 101 · 単正主体に引起する。 こうよの。 1461 +f(V)and the formation of the second the second the state of the second second second second second second second se 6.631 wilt beide man dever , since the state analyse Nime algebraic to include the stand the · 使用的化 一些小面的 and the sea senter , in-. E. 4 and the second reader of the second ಗಳ ಗ್ರಾಮ್ಮಿಗಳು ತಮ್ಮ ಸಂಧಾನ 0853 will not to strength of the second line. . . The second and many many and the second s o Li amma La santa de J 133 ିଙ୍କନ P. . . .

WELL NO. 1

WELL COMPLETION REPORT-18-4 LOG AND HISTORY

PROPERTY Maredith

THE CALIFORNIA

COMPANY

February 7, 1931, emented 9-5/8" casing at 3000' with 500 sacks of 41 Toro Cement (011 Well Special), none treated. Averaged 43% slurry. Hallibur ton Process, using Perkings top plug. Final gauge pressure 750#. Circulation was maintained while comenting and 1 hour and 44 minutes was required to mix and pump commont into place. CASING DETAIL: All 9-5/8", 0.D., 36#, 8 thread, API, Spang & Chalfant "Standard" seamless Grade "C" casing with Baker Burch coment float shoe, Stood cemented 4 days, February 11, 1931, drilled out plug and cement from 2980 to 3001 feet. Drilled ahead in 8-3/4" hole. using 4" drill pipe. 3001 3006 Brown lime with trace of anhydrite February 12, 1931, bailed fluid to 2800'; stood 3 hours and no fluid entered; water shut off U-K. 3006 3030 Brown lime with trace of anhydrite 3030 3031 Brown lime with some anhydrite 3051 3111 Anhydrite, sendy shale, and trace of line 5111 3155 Anhydrite, sandy shale, and line 3155 Ran acid bottle. Angular deviation 2 degrees at 3025'. Depth corrected from 3149' to 3150' by Halliburton manuring device. 3173 Brown 11me 3155 3173 3178 Brown line & sandy shale, SMALL SHOWING CAS 3173' to 31781 3178 3205 Brown lime and sandy shale 3205 While drilling from 3190' to 3203', well cleaned itself. After blowing & hours, gas tested at rate of 3,000 MCF per day.

3205 3810 Brown Live & sandy shale, SMALL INC. GAS 3235-3237'

COMPANY PROPERTY YTAJONA WELL NO. Burner ", 1931, seamor ", 1933. The event and the second (siles as) specially for stated. Starges (3) seamy, all burlet (recess, value) acitation and state preserver 750%. Stratton say and then be ban word I have publication of a formitic tes ape what is no at a normal grand break the set of the set LL S-S/S. . . . 345, 6 thread, 201, pates - Coslitans sectors constant irrade PC castar rith cotar Carat access Cost Llass, second as an tot s date. eneration (and 11, 200**1**, and (22) entry and another generation (and 12) for the state of another (and the state of another (and the state of an another (and the st 潮行主义 日本部分 查 na bhailteacht agus tha agus tha an tha an thairte an thairte an thairte an thairte an thairte an thairte an th The state of the second state of the second state of the second s ottalge a secret data anti grock peop 300C we if the source the solution of the solution a in the second S ... Exc. the second states and the second states and the The state of the (11b) ign maiste maister ("Marina") dystation 2000 and 2000 and 200 19321. – Abel Mari Berl Berl Berl Bitson ("1939) and 2001 动物产资源自己 人名法法 oliti **BBM** beran 11.000 BDM BBMC beran 11.000 BDM BBMC STORE A BO (Plank, aberdar) filosi oli olitiko alter 31761 alter 1880a severe 22 a 22. 20 and 22. 1000 n se norske hander frædelige og å stærete skæret oppsocherete af fas Som foll folger var folger skærete atter fastar til er skæretet medelige och som som som som som som som som so · Bear Mars

THE CALIFORNIA More di th COMPANY WELL NO. 1 PROPERTY 5810 5237 Brown lime & sandy shale Test at 3815' showed gas production at rate of 1,000 MCF per day and at 3837' at the rate of 1,500 MCF gas per day. 3237 3247 Brown line & sandy shale INC GAS TO 12,000 MCF per DAY FROM 3241 TO 3247 FRET Shut down 6 hours at 3247' to allow well to blow dry and measure volume of gas. Killed well with mud weighing 82 pounds per cubic foot (11 / per gallon). Drilled abead using mud weighing 68 pounds per suble foot (9.14 per gallon). 3255 Sand & sandy shale 3247 \$275 Brown line, sand and sendy shale 3255 Hard brown line, sendy shale & bentonitic shale 3875 3296 3517 Hard brown lime 5580 Hard brown sandy lime 3296 3317 3323 Hard brown line 33 20 3328 Hard brown sandy 1100 3348 Hard brown 11me & sandy shale 3323 33 28 3348 3354 Bard brown & black lime 3369 Hard brown lime 3354 3569 3508 Hard brown line with trace of shale. FORMATION SOFT AND A POSSIBLE INCREASE IN GAS FROM 3488 to 3493 FERT. Ran aoid bottle. Angular deviation 2 degrees at 3450'. Depth corrected from 3469' to 3468' by Halliburton measuring device. 3508 3534 Hard brown lime, some sandy lime & shale 5554 3582 Hard brown line & trace of shale 3582 3605 Hard brown sand, some brown lime and shale 3605 3616 Hard brown lime and trace of shale 3620 Hard brown sand, some brown lime and shale 5616 3620 3644 Hard brown lime, trace of sand and shale 3644 3660 Streaks of hard brown lime with trace of sand & shale Streaks of hard and medium hard brown send with some 3660 3671 brown lims and shale Medium hard brown calearsous sand and trace of shale 3671 3675 3675 3680 Hard brown lime, trace of sand and shale Lost reamer and 8-3/4" Reid reller bit in hole. Recovered reamer and bit. 3680 3700 Hard brown sandy line with trace of shale.

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WELL COMPLETION REPORT-18-4 LOG AND HISTORY

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WELL COMPLETION REPORT-18-4

LOG AND HISTORY

THE CALIFORNIA PROPERTY Meredith WELL NO. 1 COMPANY

Ran acid bottle. Angular deviation of hole 2 degrees at 3605'. Checked depth of hole at 3690' with Halliburton Measuring Line. No correction.

On March 11, 1981, compated 7" chaing at 3700' with 58 cacks of El Toro Oil Well Special coment, none treated. Averaged 45% slurry. Hallibur ton Process, using Perkins top and bottom plugs. Initial gauge pressure 250%. Final gauge pressure 400%. Weight of mud 75% per cubic foot (9-5/4% per gallon). Circulated 15 barrels of water shead of cement. Circulation maintained while computing. 33 minutes mixing and pumping coment into place.

CASING DETAIL:

All 7", 0.D., 34/, 10 thread, Spang Chalfant, API, "Standard" seamless Grade "C" easing with Baker Burch cement flost shoe. Stood computed 5 days.

On March 16, drilled out plugs and coment from 3690' to 3700'. Brilled ahead in 6-1/4" hole with clear water, using 4" drill pipe.

3700 3705 Hard sandy brown line with trace of shale

Bailed fluid to 3400' and stood 3 hours. No fluid Shut off O-K. entared.

3705 3708 Hard sandy brown lims with trace of shale

Bradenhead gas between 7" and 9-8/8" casing tested at the rate of 1,900,000 cubic feet per day. Commence using bradenhead gas for fuel.

3708	3729	Sandy brown 1100
3789	5784	Hard brown lime with trace of shale
3734	3740	Grayish brown sandy dolomitic lime with trace of brown shale
3740	3750	Brown & gray sandy dolomitic lime with increased amount of brown shale
3750	3737	Light brown sendy dolomitic lime & brown shale
3757	3775	Hard grayish brown line with trace of shale
3775	3785	Brown lime with trace of shale
3785	3790	Light brown sendy lime
3790	3795	Brown lime with trace of shale
3795	3806	Hard grayish sandy brown lime
3806	3830	Grayish brown lime with trace of shale
3850	3831	Hard grayish brown sandy lime SHOWING GAS

WELL NO. 1 PROPERTY SERVICE COMPANY

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THE CALIFORNIA

Moredith

PROPERTY

COMPANY At depth of 3831 foot allowed well to clean itself for 4 hours and flow wide-open for 7 hours. Rested at rate of 15,800 MCF gas per day, with an assumed gravity of 1.0. Killed well with clear water. Frilled ahead in 6-1/4" hole, using clear water and 5" drill pipe. 3831 3843 Hard white line 3843 5853 Medium hard gray lime Ran acid bottle. Angular deviation 2 degrees at 3895'. Depth corrected from 3853 to 5862 feet by Halliburton measuring device. CORE #1 - 3002 to 3872' - Recovery 5' 3862 3871 Medium hard; 4'6" of recovery indicates gray and brown arystalline line with shale leminations. Sore showed some porosity and carried a trace of LIVE OIL 3871 3872 Hard. 6" of recovery indicates hard, donse gray 11:00 CORE #8 - 3872 to 3882 - Recovery 5' 3874 Orilled like hard gray lime 3872 Frilled medium hard. 5' of recovery indicates 3874 3877 brown lime having an estimated porceity of 5%. Core showed TRACE OF OIL 3877 3882 Drilled soft CORE #3 - 3982 to 3897' - Recovered 7'. Lost 6 bblg. of water while coring. Filled soft. 2' of recovery indicates brown 3882 3891 11mo, porous in part and DEMOING A TRACE OF OIL Drilled medium soft. 5' of recovery indicates 3891 8897 gray orystalling lime with shale leminations and having annestimated percently of 5%. Jore showed a trace of OIL DILI Linis D: 3897 3919 Medium soft gray and brown line; lost 5 barrels vater per hour 3919 3925 Wedium hard, gray and white line; lost 5 bbls. water per hour 3925 5930 Redium hard gray live; Lost 5 bbls. water per hour 3930 At 3930 pulled drill pipe up to 3800'; let stand 2 hours but well did not flow. Connected bradenhead gas from between 7" and 9-5/9" casing into 3" drill pipe and built up

WELL NO. 1

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WELL NO. 1 PROPERTY Meredith

THE CALIFORNIA

COMPANY

1150% pressure, but well did not flow after standing 4 hours. Fulled drill sips up to 3000' and connected gas from bradenhead to 3" drill pips. Well commenced flowing between 3" drill pipe and 7" casing after pressure had built up to 900%. Flowed into pits from between 3" drill pipe and 7" casing for 14 hours at an estimated rate of 500 barrels of fluid, cut 4% B.S., and 15,000 MCF gas per day. After flowing into pits for an additional 12 hours, well was killed with clear water under 500% pressure. An estimated 60% barrels of water was pumped into fermation.

DRILLED:

3930 3935 Modius hard white lime

CORED- CORE 34- 3935' TO 3950' - Recovery 6'6"

3935 3939 Orilled hard 3939 3942 Orilled medium hard 3942 3948 Orilled medium soft 3948 3950 Orilled medium hard

Formation recovered from Core #4 was white crystalline lime, granular in appearance, STAINED SITE OIL, with an estimated porosity of 55.

Completed drilling to a depth of 3950' on March 28, 1931.

Tubed well to 3950' with 2-1/2". 10 thread, 6.5%, Jones & Laughlin, API, upset tubing, including Robinson Wall Packer set at 3850' and a 7/64" hole in tubing at 3820' to allow enough gas to enter from above packer to flow well.

March 29, 1931, swabbed fluid to 2100' and lost swab in hole. Holl commonsed flowing by heads into pits. March 30, 1931, recovered swab. Flowed well into pits thru open 2-1/2" tubing for about 37 hours. During the last 9 hours, flowed at an estimated rate of 550 barrels of fluid, cut 1% B.S.&W, and 550 MCF gas per day. Gas-cil ratio 1570 cubic feet per barrel.

Well was shut in April 2 to connect up separator and tanks. During the following four days the production gauged an average of 221 barrels of fluid, out 1% to 1.5% BikW, per day and approximately 670 MCF gas per day.

WELL NO. S PROPERTY OF MAN

COMPANY

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WELL NO.	1	PROPERTY	Moredith	
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THE CALIFORNIA COMPANY

May 23, 1931, pressures of 1480# and 1500# were registered at de the of 3841' and 3935', respectively, with a California Bopth Pressure Recorder. The pressure at the surface was 1400#.

Bay 26, killed well with clear water under 1500% pressure. Bridged note with rock from 3950' to 3860' and with lead wool from 3960' to 3858'. Fumped 3 sacks of 611 Well Special cement, none treated, on top of the lead wool which filled hole from 3858' to 3847'. Cement set 0-K. Tubed to S814' with 2-1/2" upset end tubing. Before cementing, a 2-hour test with well flowing wide-open between 2-1/2" tubing and 7" casing showed gas at rate of 11,400 MCP per day (Fitot tube measurement) and no oil. Killed well and secured circulation with clear water.

On May 31, 1931, commented off gas with 75 sacks of El Toro Cil Cell Special comment mixed with 81 cubic fest of water. Funped in thru 2-1/2" upset end tubing at 3814', using Halliburton pumps. Casinghead kept pinched until coment reached bottom of tubing, then shut in.

Thile 54 sacks of coment were being pumped back into formation, pressure increased from 200% to 1300%. Tubing was hanging on slips in Hinderliter tubing head (4000% test). As tubing was being picked up to avoid possibility of sticking, the body of the Winderliter tubing head failed. S-1/S hours were lost pulling tubing, breaking out head, changing connections and building up 1400% pressure before the well was shut in. Stood cemented 4 days.

On June 5, found top of ecaent at 3710'. Drilled out comment from 3710' to 3852'. Bailed water to 1250' and well commenced to flow, and was allowed to flow open into pit for 14 hours. After the hole was cleaned, a gauge showed fluid at the rate of 75 barrels, cut 35% BSAW, and gas (Pitot tube measurement) at the rate of 1250 MCF daily. Later the gas increased to 3500 2005 daily.

On June 8, 1931, the well was killed with water under 1000% pressure. Cleaned out bridge from 3852' to 3950'. On June 10, ran tubing. Bubed to 3944' with 2~1/2" upset end tubing with a 1/8" bottom hole bean set at 3942'. Swabbed fluid to 2000' and well began to flow. Froduction from between the 2~1/2" tubing and 7" casing, which was turned into the pit for 7 days, gauged as follows:

PRO. 18-4 2M-3-29

WELL NO. 1 PROPERTY WELL NO. 1 PROPERTY WELL'S COMPANY

May 24, 1962, pressures of 1880, and 1800 were

rogiesured at de las of 3041° and 3435°, respectively, elch a ell'ornia each ressure basers baseler. Ele preserva si be a store was lester.

be in the stand of the secence of and generated of the second south correct state with all outle fout of where, unped is the G-1/2° upped and thing at J2141, when is to binder to a standard bast plached and that a source for the brown of the states.

Sells if had been a burnet were eased proposition formation, wrecense thereased from 2000 to 150000 the last and stight of house if it is also that no bead (4000 to as i.) both of the blochter of a sell to not bead failed bits of a stellar, the both of the blochter with a bead failed. Sel/2 hours have hour stight with to wreaking out work, o enviod to an end both by 1400 with the before the well we as a should be be building by 1400 with the bead the well we as the book on both of definition with the bead for a set of the building by 1400 with the before the well we as the to be both the book of the before the well we as the to be both the book of the before the book of the book of the book both the book of both both the book of the bo

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WELL COMPLETION REPORT-18-4

LOG AND HISTORY

WELL NO. 1

THE CALLFORNIA COMPANY

On January 6 landed 5-1/2" casing at 3950". Before the casing was landed, pumped in mud weighing 94/ per cubic foot (12.5# per gal.) between the 5-1/2" and 7" casings.

Moredith

PROPERTY

Left-hand adapter on casing 365' above shoe.

Shut down three days to remove rotary table and rig up cable tools.

Bailed out mud which was left inside of $5-1/2^{n}$ casing from 3150' to 3300'.

On January 12 sand line parted, leaving $4" \times 31'$ bailer and 100' of sand line in hole. On February 7, 1932, recovered bailer and sand line after pulling all of 5-1/2"casing.

On February 8, landed 5-1/2" casing at 3950'. Lefthand adapter 365' above shoe, and on the following day commenced deepening in 4-3/4" hole with cable tools. Bit showed marks which were probably due to pieces of latch out of latch jack and slip from combination socket which were left in hole while fishing for bailer.

3950 3952 Gray lime, hard 3952 3954 Gray lime, soft

On February 12, bailed hole dry to test for water shut-off. The following tests were made:

STUOD Hours	HOURS BALL- ING DRY	FLUID GAL OIL	ent sred Gal. Water	total Time	RATE OP ENTRY P BBL3 OIL	PLUID SR 94 INS BBLS. WATER	HOLE OPAN TO
3	1	54	22	4	7.7	3.1	3954'
3	1	39	15	4	5.6	2.1	? \$
3	1	43	14	4	6.1	2.0	19

Filled hole to 3450' with water and drilled ahead in 4-3/4" hole with Baker cable tool core barrel

CORED - CORE #5 - 3954' to 3959' - Recovered 5' CORE #6 - 3959' to 3961' - Recovered 1'6" CORE #7 - 3961' to 3964' - Recovered 1'

3954 3964 Medium, dense brown lims saturated with oil but non-porous.

Checked depth of hole with steel measuring line at 3964'. No correction.

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WELL COMPLETION REPORT-18-4

LOG AND HISTORY

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WELL COMPLETION REPORT-18-4 LOG AND HISTORY THE CALIFORNIA

COMPANY

PROPERTY Meredith THE CALIFORNIA
Average daily production - bals fluid - 151
Ave out % (due to water used to kill well) #7.#
Ave. deily gas production. MCF - 4.160
Ges-Fluid ratio - Cu. It. per bol 27,500
Ave, daily prod. bols. not oil - 110
Gan-011 ratio - cu. ft. per bbl 37,890
Prossure on tubing - No record
" casing - " "
From June 17 to 21 as attempt was made to produ
a the 1/9" bottom hole been but production only average
m 1 to 2 berrels daily. Apparently the Dean Was plugse
bann was cleaned and production obtained thru it and a
" bean on the casing was as follows:
Eucher of days
average daily production - bbls fluid 41
two out diano to water mand to kill well) - 13.7
Avg. daily production of gas - MOE
Gas-fluid ratio, eu. 12. per bol86,500
ler defly prod. Dels net oll 🛥 🛥 🛥 💞
Gas-Cil ratio, du, ft. per DDL98,500
Pressure on tubing trap pressu
Pressure on cusing, 10s. per sq.in 1200
Between June 25 and July 8, 1931, the bottom he
in was removed and the well retubed to 3944' with Sol/2"
dng with bottom hole been collar set at 3948'. "ell
wanted to flow when fluid was swebbed to 2000'. From J
July 23, 1931, production data were as follows:
Plos atring open 8-1/2" tub
Number of davs 20
Ave. Juily production-bals of fluid 53
Ave. out %(due to water used to kill well) 8.8
ave. do ily production sas - MCF 4144
Flow string open 2-1/2" tul Number of days 20 Avg. Jaily production-byls of fluid 53 Avg. out %(due to water used to kill well) 8.8

Avg. daily production gas - AU. 78,500 Gas-Fluid ratio - ou. ft. per bbl. Avg. daily production - bbls. net oil 49 86,300 Gas-11 ratio - ou. ft. per barrel Prossure on subing - Lbs per sq. inch Trap pressure 900 Pressure on casing -38 10 1

During the above test there was a gradual decrease of oil from approximately 75 to approximately 45 barrels, and an increase in gas from approximately 3600 MCF to 5000 MCF daily. The cut decreased from 15% to 1% BJ&W.

WELL COMPLETION REPORT 18-4

LOG AND HISTORY

WELL NO. PROPERTY LETO di di

COMPANY

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Aug			-			<i>L)</i> € 4.9	19 1 7	VØATA	7 A Q 4	V95.
	1	70	8	/64"	None 3.1.	None	281	-	1400	140
Aug	3	20	0	pen	3/8"	68	5040	73576	50	60
Aug	4	10			1/2"	67	4880	72835		60
Aug	6	B D		*	3/4"	72	4825			
ANR	10	4D		9	3/8*					
Aug	23	LSD		71						
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DRILLERS: Ed Henson L. R. Tippett

Midland, Texas, Nov. 3, 1932.

GEORGE L. KLINGAMAN GORDON M. GRIFFIN

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.1610nd, ceres, Nov. 5, 1932.

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	<u></u>	Ľ	BEPENIN	G & PI	LUGGIN) HIS	TORY	······································	
off gas	On De	eember	5, 1931	., ent?	10 ri 281	ti on	Wels recei	lved to a	shut
			PROPO	SED W	DRK.				
	K111 w		h water		-				
2.	Ream h	ole to	6-1/4"	with r	otary	tool	a from 3	700' to 3	3950 '
3.	2 00'	above	sing wi shos. Vy mud.	Be fore	setti	ing e	ster appr asing on	bottom,	bandd A
4. 5.	Test 5 Deepen estim	-1/2" c with c ated sh	asing f able to ould be	or shu ols to encou) nert	poro i witi	us zone v lin the r should be	mext 50 1	t.
6.	tinue When t conte	usly. he porc nt. Fu	us hori	zon is rocedu	encou re wi)	inter	ed, test bend upon	for flui	đ
7.	Ifac	onmerci		odueti	ve all	hor: 8.	izon is r	ot found	i, plug
8.	If oil at a	is enc pp roxim	ountere ately 3	d, 100 850' 1	sen th coene	e 5-] nt of	L/2" casi ff gas.	ing and o	ement
9.	If wel	1 does	not flo	w, sho	ot pre	ducti	ve horiz	ons.	
10.	If des adap	ired, 5 ter and	-1/2" c pulled	as ing	may be	back	ced off e	it left-h	and
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on famery 1, 1952, Milled woll wild mater under 1200 CLI-S lin beling but anoiseemen ers and bovecut, strapping author. a samary 2 and 5, reamed hole from 3700' to 3950' with agic first on 3' drait pipe. _____3**__**__3

PRO. 18-4 3M-5-30

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	Ûn	Februar	y 14 be	iled ho	le dry ar	d made	following	tests:
	BAIL-		CA1	Ned To Is. Ti Ner	Me per HBI	24 HOU	BBLS.	OPEN
3	1	66	2	21 (6 9.	4	3	3964 '
	#a.1	er laste	ad fre s	h, grav	lty of oi	1 33° A	P1.	
in 4-1					h water a bl core b		led ahead	l
CORED	- CORE	#8 - 39 (54' to	3968' -	Rocovere	d 4'		
3964	3968'			brown i Ion-porol	lime, som US	owhat 3	ATURATED	7 ITE
	CORE	#9 - 39 (58' to	8973' -	Recovere	d 5'		
396 8'	CORE 3971*	Modium, no oil	broken 1. prot	white) bable ind	Recovere Lime, por presse in spproxime	ous in p fresh	vator fro	11
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3971	3971 ' 3973 ' 0n	Modium, no oil appron hour. Modium, SATU)	broken 1, prot timatel dense, RATED 3	brown C	lime, por presse in approxime lime slig	ous in p fresh t tely 30 htly say	ater fro gallons ndy. 30% Ly porous	per Swhat
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3971 follor STOCD HOURS	3971' 3973' on ving tea HOU 75 BAIL- ING	Modium, no oi: appro hour. Medium, SATU: Pebruary ts for s PLUID (GAL). OIL	broken l, prob cimatel dense, RATED y 14, J Fluid: ENTHY GALS. WATER	brown : brown : Drs OIL 932, bai TUTAL TIME	lime, por prease in approxime lime slig but very led hole RATE OF PER 24 BELS. OIL 12.3	ous in p fresh t itely 30 htly say slight dry and FLUID H HOURS BBI WA 1	ater fra gallons dy porous d made th SNTRY F L3. 1 FER	per Inhat Ie Iole Ipen Po
3971 folla	3971' 3973' on ving tea HOU 75 BAIL- ING	Modium, no oi: appron hour. Medium, SATU: Pebruary ts for f PLUID (GAL). OIL 43	broken 1, prot cimatel dense, RATND - 7 14, J Cluid: ENTRY GALS. WATER 61	brown : brown : Drs OIL 932, bai TUTAL TIME	lime, por prease in approxime lime slig but very led hole RATE OF PER 24 BELS. OIL 12.3	ous in p fresh t itely 30 htly su slight dry and FLUID H HOURS BBI WA 1 1	ater fra gallons dy 50% Ly porous d made the SNTRY F LS. 1 TER 7.5 S	per Swhat Swhat Se Nole Se Se Se Se Se Se Se Se Se Se Se Se Se

Drilled ahead in 4-3/4" hole using Baker cable tool core barrel.

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WELL COMPLETION REPORT-18-4

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	.	PROPERTY						
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3979	3980	Hard, bro slight]	wn lime Ly parou	with wh s in par	ite line t	inolusi	ons,	
	CORE	#12 - 51	180 to 3	9 83 - Re	covered	216"		
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		#13 - 39						
3983	3986	Kodium, s	oft, der	ise, bro	wn lime			
	CORE	/ 14 - 3 9	86' to :	3991' -	Recovere	id 416"		
3986	3991	Sedium br somewha IN GAS	t porqu	with in in par	ne lus ior \$; PO331	s of whi BLE SLIG	te line IT INCR	HAS 2
	CORE	/15 - 39	91' to :	5995' -	Recovere	d 3*6"		
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follo	On Ming ter	February sts:	18, 193	12, bail	ed hole	dry and a	nade	
stood Hours	Hours Bail- Ing	FLUID K GALS. OIL	NTERED GALS. WATER	Po tal Time	RATE OF PER 24 BBL3. OIL	EHTRY HOURS BBLS. WATER	hols To	open
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2	2-1/2	80	115	4-1/2	10.2	14.6	3991	51
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PRO. 18-4 3M-5-30

WELL COMPLETION REPORT-18-4 LOG AND HISTORY

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WELL COMPLETION REPORT-18-4

	. 1	PROPERTY	Meredith	THE CALIFORNIA	COMPANY
CORED	- Cori	#16 - 3995	' to 3997' - R	eovered 1*6"	
3995	3997	Nedium hard	, dense, brown	lime, non-porous	
	CORE	#17 - 3997	" to 4000" - Re	covered 3'	
3997	3998	Medium brow porous	n lime, colitio	in appearance, slight	tly
399 8	40 001		k-gray lins, of percus.	olitic in appearance,	
Febru	Co ary 19,		lling to a tota	al depth of 4000' on	
off we increa	ator in	lower part	of hole as it	ling at 4000' and plug was not thought an below that depth.	
receiv Applie but di	water. red no ed 1000 id not	Applied 7 returns fro # pump pres receive any	00, pump pressu a between the f sure between th	whed with 70 barrels of the on 5-1/2" easing by 5-1/2" and 7" easings. 10 5-1/2" and 7" casing 5" casing. These tests by holding 0-K.	ut 3.9
to 60/	ro 011 § slurr	Nell Specia	l coment not the three second to three second to the second secon	4" hole with 13 sacks reated (mixed with wate tubing hung at 3998'.	
Squal: Pulled under circul	1 tubin 500∦ p Lated 5	ment with 2 g back to 3 reasure and 0 barrels o	915' and circul then pulled to f water under 5	ter under 500 / pressure lated 3.5 barrels of we bing back to 3678' and 500 / pressure and let 5 days for coment to a	ater l
Squal: Pulled under circul	1 tubin 500# p Lated 6 shut 1 On	ient with 2 g back to 3 ressure and 0 barrels o n under 500	915' and circul then pulled tu f water under f pressure for	ter under 500 pressure lated 3.5 barrels of we bing back to 3678' and 500 pressure and let	set,
Squal: Pulled under siroul stand to 39: hours	i tubin 500# p Lated 6 shut i 50'. On and no	ment with 2 g back to 3 reasure and 0 barrels o n under 500 February 2 February 2 flaid ente	915' and circul then pulled to f water under f pressure for 6, 1932, drille 7. 1932, baile	ter under 500 / pressure lated 3.5 barrels of we bing back to 3678' and 500 / pressure and let 5 days for coment to 1 ad out coment from 3920 hole dry, let stand 1 mater encountered betwe	ster l set.

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WELL COMPLETION REPORT-18-4

LOG AND HISTORY

WELL NO. 1 PROPERTY Meredith THE CALIFORNIA On March 8, 1932, shot formations from 3935' to 3874' with 840 quarts of mitroglycerin in 5" shells. 10' anchor below shot. The well had been killed with water before putting in nitroglycerin shells. After the zero hour bomb had been placed, swabbed fluid to 900' and well commenced to flow. Flowed thru open 7" casing from 3:30 to 7:00 P.M. when shot exploded. Following the shot the well was allowed to flow into the air for 30 minutes to clean hele before production was turned into flow tanks.

Hell flowed 1077 barrels of fluid thru open casing into tanks during the first 24 hours after the shot; BSAN decreased from 35 to 1 per cent, and during the next few hours decreased to 5/10 of 1 per cent BS; gas-oil ratio 7100 cubic feet per barrel.

March 10 and 11, experimonted with casing chokes ranging from 14/64" to 1/8", but gas-oil ratios were high.

On March 13 ran 3910' of 2-1/2", 6.5%, JaL, API, 10 thread, U.E. tubing with bottom hole bean collar at 3907' and four rows of 5/8" x 4" perforations at 3908". Tubing run thru Regan oil saver with disc on bottom of tubing.

During the period Merch 16 to 31, experimented with tubing chokes ranging from 12/64" to open; gas-oil ratios 24,000 to 15,400 cubic feet per barrel.

Shut in account over allowance April 1 to 15.

Experimented with various tubing and casing chokes April 16 to 21; gas-oil ratios 16,900 to 8,900 cubic feet per barrel.

Shut in account over allowance April 22 to May 4,

1932.

May 5 and 6 well flowed 1222 barrels of oil in 24 hours thru a 24/64" tubing choke and a 1" casing choke; gas meter out of order, estimated ratio 10,000 cubic feet per barrel.

During the period May 7 to June 6, experimented with various tubing and casing chokes and shut in for storage 15 days. The results of gas-oil ratio tests were approximately the same as on previous tests.

PRO. 18-4 214-2-29

COMPANY

PROPERTY SERVICE WELL NO. COMPANY or and a train the transmitter of the state of the BORE WITH 240 QUETER OF ALTROPINGETA IN 57 BROLDS. 10' STORIOF below anois the trailing room filled with werse before putited the developments anolis. . fter the zero nour bond had beer pland, awabbed fluid to 000' and well commenced to "low. . inted Sara open 7 escine from 3:30 to 7:00 when shot expliced Collectory the shot the well was allowed to Dow 1000 the sir far So sinuses to since hale balance production was incread .stud will ofal Gelleso 1000 barrels of fluid thru open cosing into tanks during the first 24 hours after the stot; Both Cooreaned from 35 to 1 per cent, and during the next few hours decreased to b/10 of 1 per cent 33; gaa-eil ratio 7100 oubie foet per barrel. area to and 11. experimented with easing oboles runding from 14/64" to 1/8", but gas-oil ratios were upo to thread, the tubing stub both on 2-1/2", 5.5%, 52%, 4"1. and four rows of 3/3" x 4" perfore theme of 5908'. Inding The thru the rows of the large of the large of the large. Turker the period teres is to all dependenced with

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ay 5 and 6 cold flowed LEEE barrels of 011 in 24 bours wirth a 24/64" tuning obside and a 1" ceaing obside flow actor out of ceder, outirated ratio 10,000 culde feat por barrels

Curics and parted by 7 to June 6, experimented as antions tolding and casing choices and shut in for storage is days. In results of goveoil retra mate and are sumfactly the same as any story and other.

WELL NO. 1 PROPERTY Meredith THE CALIFORNIA COMPANY

June 6 to 15, well flowed an average of 20 barrels daily thru a 7/64" shoke with a gas-oil ratio of 9,900 cubic feet per barrel.

June 15 to 17, well flowed an average of 22 barrels daily thru a 6/64" tubing choke with a gas-oil ratio of 6,500 suble feet per barrel.

June 18 to 23, flowed thru various tubing and casing chokes and obtained an average of 1000 barrels of oil daily with a ratio of 9,500 subio feet per barrel.

June 23 to July 14, flowed thru various tubing chokes and wide-open while replacing gasket in Regan tubing head.

July 15 to 26, flowed an average of 18 barrels daily thru a 6/64" tubing choke with gas-oil ratio of 6,300 subic feet per barrel.

July 27 to August 5, flowed an average of 20 barrels daily thru a 5/64" tubing choke with a gas-oil ratio of 3500 cubic feet per barrel. During this period the gas-oil ratio decreased from 4900 to 430 cubic feet per barrel, and tubing pressure decreased from 1060 to 820 pounds.

August 6 to 8, flowed an average of 27 barrels daily thru a 6/64" tubing choke with the gas-oil ratio increasing to 6,600 subic feet per barrel and tubing pressure to 1140 pounds.

August 8 to 21, flowed an average of 16 barrels daily thru a 5/64" tubing choke; gas-cil ratio dropped in 4 days to 1000 cubic feet per barrel, and tubing pressure to 220 pounds.

August 22 to 23, flowed thru a 5/64" tubing choke and open while repacking Regan tubing head.

August 24 to September 1, installing another separator and connecting up.

September 2 to 5, flowed an average of 14 barrels daily with a gas-oil ratio of 1140 cubic feet per barrel, shoke on tubing. September 6 to 9, shut in while laying down 5-3/16" casing.

All sectors of the De WELL NO. 1 PROPERTY CON GAL COMPANY dups 5 to 15, well fices a svarage of 20 horsels date they a v/84" anote at the a gas-all rest of 2.900 adde .ioricd tor foot Jupp 15 to 17, well flowed as around of 52 bearels doily three a d/de" turning choke with a pass-oil mail of a, soo autan feat par barrel. June 15 to 23. Lowood there variants folding and casting this that is is a farmed of 1000 here at 120 here is of of 12 with a ratio of 9,500 and to feet per barrei. Suno 13 to Jaly 14, flowed Sara Farlous tubing accord an again tubing .0561 July 15 to 28, flowed as average of 16 barrels daily live a 6/64" tubing anothe with rasho of 6.500 .iorned yes ber barrel. Buly 27 to Augus 5, theose an average of 20 barrals daily thru a 5/34" tubing about with a gas-ail watto of 3.00 ouble foot yer barrol. write and sales barloi the gar-oil ratio deareased from \$900 to \$80 outre foot our barnel, and thefthe , EDRUG CE CA CAOI MOT' DEERLICED DECEMBER, Aurals 6 to 8, flowed as average of 27 barrals dolly dire a 3/64" tubing choice althe inc gas-oil raile increas Did of enveron paters and longed the follow double to and . e Sento : LURING 6 to 81, flowed on every a of 16 burnels. daily area a 3/64" adding theoke: gas-oil cetic cropped in 6 days to 1000 mists floot par parrol, and tabing produces to . efations des against at to 25, Ployed thru a 3/34" subtry choke and grees within regarding high the second bar Tuillons preficters, i takestori of AS introduct aga mallenamen ben melamagan meanned of to even an average of a mersee telle a gan-oli radio of ile's outle flowing a guing the aboin on bables. Second of some second of an is as as the light of the second of the second of the second of the second of the s NOI ESO

WELL NO. 1

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PRO. 18-4 2M-3-29

THE CALL PORNIA

RNIA COMPANY

September 10 to 11, repacking Regan tubing head.

September 12 to October 29, flowing an average of 16 barrels daily thru a 5/64" tubing choke. The tubing pressure decreased from 1340 pounds on September 12 to 200 pounds en September 24 and remained steady at 200 pounds and the gas-oil ratio decreased from 3600 to 250 cubic feet per barrel during the same period and remained steady.

PROPERTY Meredith

NOTS: All gas measurement, except as noted, are calculated from a determined gravity of .75 and an assumed pressure base of 13.2 peards plus 4 cunces.

The abnormally low gas-oil ratio of 250 cubic feet per barrel obtained thru a 5/64" tubing choke in the period September 12 to October 29, 1932, appears to be correct, altho the solubility of the gas in the oil at the formation pressure is perhaps two or three times this amount.

On October 28, 1932, the gas meter was found to be operating properly and no leaks could be found in the separator or lines.

well averaged 83.43 barrels daily first 30 days after being despend and shot, flowing thru various chokes and tubing, being shut down approximately 17 days account proration.

CABLE TOOL DRILLORS: D. Gheno

D. Gheno Roy Messimer Sam O'Neil.

Midland, Texas, Nov. 3, 1932

GEORGE L. KLINGAMAN COLIN V. REITH.

PROPERTY PROPERTY

WELL NO. 1

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