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DISTRIBUTION			~~						Re	evised 1-	1-65	
SANTA FE		_ NEW	MEXICO OIL	CONSE	RVATION	4 CO	MISSION		1		ype of Lease	
FILE		WELL COMPL	ETION OR	RECOM	PLETIO	N RE	PORT A	ND LOG	1	ate XX	Gas Lease No.	<u>- </u>
U.S.G.S.										2986	Gus Lease No.	
OPERATOR .									7774	7777		7777
						•						
Id. TYPE OF WELL				· · · · · · · · · · · · · · · · · · ·			EST II		7. Uni	t Agreen	nent Name	7777
		OIL X GAS		, [OTHER A			A	Nor	ıe		İ
b. TYPE OF COMPLET	TION				GIRER	2	LULIV		ll .		ise Name	
	K DE	EPEN BAC	G DIFF.		ОТНЕЯ	_		4001	1		ico State	•
2. Names of Operator					1		EP23		9. Well #3	il No.		
Kenai Oil and	Gas Inc.	•	.*			OIL	CON.	COM.		lald and	Pool, or Wildcat	
717 17th Stree	at Suite	2000 Dony	or CO 80	202	`		DIST		!		-Gallup	
4. Location of Well	o, burde	3 2000, Denv	61, 00 00	202		-			1111	7777	mm	m
		_										
UNIT LETTERG	LOCATED _	1650	FROM THE	North	_ LINE AND		1650 ₋	EET FROM				
					11111	111	MILLE	TITT	12. 0	-		1111
THE East LINE OF S	32	TWP. 24N	SGE. 8W	NMPM		7777	XIIII	77777	S	ı Juar		
15. Date Spudded 5/11/81	16. Date T.D 5/20,	D. Reached 17. Da	te Compl. (Rea	ly to Proc			ons (DF, F GR; 702		GR, etc.) 19. El	ev. Cashinghead	
		1	/ 7/81									
20. Total Depth 5700	21.	Plug Back T.D. 56631	22. II Ma		Compl., Ho VO	"	23. Interval Drilled		y Tools Yes	5 ! !	No No	
24. Producing Interval(s), of this com		om. Name	-		1		-> :		25	Was Directional	Survey
				-	E1.00 F	-000				123.	Made	Survey
Lower Gallup:	2024-22	201 -	upper Gal	Tup:	5402-5	277	1				No	
26. Type Electric and O	ther Logs Rur	1								27. Was	Well Cored	
DIFL/GR; CNL/	CN/GR; CH	BL									No	1
28.		C	ASING RECOR) (Report	all strings	s set i	n well)					
CASING SIZE	WEIGHT	B./FT. DEP	THSET	HOLE	SIZE		CEMEN	TING REC	ORD		AMOUNT PU	LLED
8-5/8"	23#		00'KB	12-1,		2	75 sxs	Class	В			
5-1/2"	14#	57	03'	7-7,	/811	lst	stage:					
						2nd	stage:	850	SXS			
29.		LINER RECORD					30.			RECOR		
SIZE	TOP	BOTTOM	SACKS CEN	MENT	SCREEN		SIZE		EPTH S		PACKER S	ET
	МОИ	<u> </u>			***		2-3/8"	566	6.44	-		
21 Destantin Bears (4610	CUOT F	NA CTURE	CENE	UT COLL		
31. Perforation Record (intervat, size	ana numoer)		<u> </u>	32.		·				EZE, ETC.	
SEE ATTACHED	'COMPTETT	ON HISTORY		-	SEE A		CHED "				MATERIAL USE	
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y - M				ľ								
33.				PRODUC	TION		•					
Date First Production	Pı	oduction Method (F				id type	e pump)		_		Prod. or Shut-in,	,
8/11/81		Pump, 7 -								roduc		
Date of Test	Hours Teste		Prod'n. F Test Peri		1 - Bbl.	1	Gas - MCF	· Wat	ter – Bt	1.	Gas-Oil Ratio	
8/31/81	24	3/4"		<u>→</u>]	70		167		1	- L 041 C	2386 ravity – API <i>(Ca</i>	1
Flow Tubing Press. 125	Casing Pres	Hour Rate	24- OII — BbI -> 70	•	Gas —	мсг .67	l wa	ter — Bbl. 1		On G	rdvity - API (Co	""-)
		fuel, vented, etc.)	→ 1∪			.0 /			st Witne	ssed By		
34. Disposition of Gas (Sold, used for fuel, vented, etc.) Will be sold when connected to gas pipeline. Test Witnessed By Dave Howell												
35. List of Attachments	 											
Wellsite Geo	ologic Re	eport: Compl	etion His	torv								
36. I hereby certify that					and comple	ete to	the best of	my knowle	dge and	belief.		
	111	0									_	
SIGNED	Show		<u>*</u> 1111	E_Mana	ager of	Pr	oductic	n	DATE	E	9/8/81	

INSTRUCTIONS

This form is to be filed with the appropriate Dioriest Offic of the Commission not later than 20 days after the completion of any newly-drilled or despensed well. It shall be accomputed by one copy of all electrical and raise-activity logs run on the well and a summary of all special tests conducted, including infiliation tests. All depths reported chall be measured depths, in the case of directionally drilled wells, true vertical depths shall also be reported. For sultiple completions, Items 30 through 34 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six ceptes are required. See Bule 1145.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Northwestern New Mexico

Southeastern New Mexico

T. Ani	hy		т.	Canyon		T. Oio	Alamo		т	Penn (R)	
T. Sal	Anhy T. Canyon Salt T. Strawn			T. Kirtland-Fruitland			т	Penn "C"			
B. Salt		T.	Atoka		T. Pictured Cliffs 1836		· T	Ponn (ID)			
T, Yai	T. Miss		Miss		T. Cliff House 3316!			Т	Leadville		
T. 7 Rivers T. Devonia		Devonian						Madison			
T. Que	een		T.	Siluri an		T. Poin	t Lookou	4250	т.	Elbert	
T. Gra	yburg		т.	Montoya		T Mancos 44201		т.	McCracken		
T. San	Andres _		т.	Simpson		T. Gallup		Т.	Ignacio Otzte		
T. Glo	rieta		Т.	McKee		Base Greenhorn			T.	Granite	
T. Pac	idock		T.	Ellenburger	· · · · · · · · · · · · · · · · · · ·	T. Dako	ta		т.	TD: 5700'	
T. Bli	nebry		T.	Gr. Wash		T. Morri	son		т.		
T. Tul	ob		Т.	Granite		T. Todil	lto		Ť.		
T. Dri	nkard		T.	Delaware Sand		T. Entra	ida		Т.		
T. Abo	·		Т.	Bone Springs		T. Wing	ate	·	Т.		
T. Wol	framp		Т.			T. Chinle		Т.			
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dick harnly
consulting petroleum geologist
1932 eastlawn ove ,durango colorado,81301,303-247-1518

WELLSITE GEOLOGIC REPORT

KENAI OIL & GAS, INC. NEW MEXICO STATE WELL No.3 sw ne 32-T24N-R8W San Juan County, New Mexico

OIL CON. COM. DIST. 3

Prepared by Dick Harnly

dick harnly
consulting petroleum geologist
1932 eastlawn ave, durango colorado, 81301, 303-247-1518

OPERATOR:

Kenai Oil & Gas, Inc

WELL:

New Mexico State, Well No.3

PROSPECT:

Escrito-Nageezi Gallup

LOCATION:

sw ne 32-T24N-R8W

San Juan County, New Mexico

OIL CON. COM. DIST. 3

LOGGED:

2500 - 5700 *

5-13-81/5-21-81

DRILLING CONTRACTOR:

Kenai Drilling Co., Rig 31

Red Shorter, Pusher

WELLSITE GEOLOGY:

Dick Harnly

MUD LOGGING:

Durango Well Logging

Mark Harnly, Logger

MUD:

Mesa Mud Co.

M. Atchison

WELLSITE ENGINEERING:

Elledge Consulting & Production Co.

L.Bixler

LOGGING:

Dresser Atlas

D.McKelvie

TESTING:

None

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SUMMARY OF MUD PROPERTIES (MESA MUD CO.)

DEPTH	WEIGHT	VISCOSITY	WATER LOSS	CAKE	<u>ph</u>	CHLORIDES	% SOLIDS
1100	9.2	34	5.8	2	7.5	500	5.8
4175	9.2	31	5.0	2	7.5	500	4.2
4697	9.4	38	5.6	2	7.5	500	6.4
5228	9.4	39	4.8	1	7.5	500	7.0
5640	9.4	58	4.8	2	8.0	500	5.4

BIT RECORD

B-2, Smith, 7 7/8", DT-J, 305-2074, 1769 ft, 21 hrs

B-3, Sec. , 7 7/8", S-33, 2074-2882, 435 ft, 6 3/4 hrs

B-4, Smith, 7 7/8", F-2 , 2882-4226, 1344 ft , 39 3/4 hrs

B-5, Sec. , 7 7/8", S84F, 4226-5700, 1474 ft , 61% hrs

SEP 23 1981 OIL CON. COM. DIST. 3 いいしゅう

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FORMATION TOPS (From "E" logs) Elevations: 7010 GL, 7021 DF,7022 KB

FORMATION	DEPTH	ELEVATION
Pictured Cliffs	1836	5186
Cliff House	3316	3706
Point Lookout	4250	2771
Mancos	4420	2602
Gallup	5272	1750
Total Depth (Drilled)	5700	1322
Total Depth (Logged)	5703	1319



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> SEP 2 3 1981 OIL CON. COM. DIST. 3

GEOLOGIC & MUD LOGGING

Geologic services were performed Dick Harnly from a depth of 2500 feet to the total depth of 5700. Mud logging sevices were conducted by Mark Harnly of Durango Well Logging, Durango, Colorado, throughout the same interval. Those services included monitoring of any gas present in the returning drilling mud, Chromatographic analysis of said gas, examination of the drill cuttings for lithology and any shows of hydrocarbons and the preparation of the mud logging record.

OIL/Gas SHOWS

Sample quality from the start of the logging of this hole(2500') was of a poor to very poor nature due to the very poor hole cleaning action of the low viscosity of the drilling mud...resulting in an abundance of cavings from "up-hole". By the time the Gallup was reached the sample quality improved but the shallower formation representations were poor.

The first detectable hydrocarbon shows were encountered in the Point Lookout in the form of a small show of gas (10 units). Samples in this zone were a very fine grained sandstone with a trace of a fine to medium grained sandstone (more nearly typical of the Point Lookout)...at this point no sample shows were evident. Between 4290 and 4330 feet a trace of fair yellow fluorescence with a trace of a slow, bleeding, blue-white cut fluorescence was notes in a sandstone and siltstone as described above. Possibly this sample show is cavings from the zone of gas detection 4230-40 feet.

In the Mancos formation shows were encountered in siltstones ranging from 4430 to 4670 feet. The magnitude of the shows were of the order of 5-10% of each sample and no gas was detectable...only traces of fair yellow

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fluorescence with a very slow blue-white cut fluorescence were present This zone may well be exagerated by the abundance of cavings due to poSEP23 1981 OIL CON. COM. hole cleaning action of the low viscosity drilling mud. DIST. 3

As was anticipated the most significant shows of oil and gas were encountered in the Gallup formation. The first was found in a very fine grained , calcareous sandstone 5255-65 feet, which yielded a gas reading of 28 units of total gas composed of 20 units of methane, 6 of ethane and 1 unit of propane. This sandstone exhibited a good yellow fluorescence with a slow blue-white cut fluorescence, no porosity or permeability was visible. Asecond zone was noted 5290-97 feet in a sandstone exhibiting a tan oil stain with a good bright yellow fluorescence and a good bluewhite cut fluorescence.A trace of fair porosity and permeability was noted in this very fine grained calcareous sandstone. Gas readings in this zone were the best encountered in logging this hole...40 units of total gas; 26 units of methane, 10 of ethane, 4 propane and a trace of butanes. A very fine grained sandstone found between 5406 and 13 feet provided about 40% of the sample with a bright yellow fluorescence and a good to fair blue-white cut fluorescence. A tan oil stain and a trace of fair porosity and permeability was noted in this sandstone. A final zone of significant shows was encountered 5475-90 feet. A very fine grained sandstone in this zone exhibited a good yellow fluorescence and a fair blue-white bleeding cut fluorescence in about 10% of the sample. The small percentage of show in this zone was confused by the abundance of cuttings...a by-product of raising the mud viscosity from 39 to in excess of 50 sec/qt. Only 10 units of total gas were recorded;6 of methane and 2 units of ethane.

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SUMMATION

The area has had a history of problems encountered in the form bridges in the hole causing trouble while attempting to conduct electric and mechanical logs....this hole was no exception, hole bridging prevented penetration by the logging tool at 1113',1708',380' and 418'. The hole was re-enterd and "cleaned out" well below these respective bridges. After the bridge at 418' was encountered the hole was cleaned out to total depth and no further obstructions were encountered. The water loss control while drilling this hole was good ... never greater than 6 cc; however the drilling of holes with a low mud viscosity down to about 4600 feet may have contributed to the bridging problems. Due to the low carrying power and poor cleaning of low viscosity muds the sample quality did suffer due to the abundance of cavings. Consideration to a more progressive viscosity program being incorporated in the mud program for future drilling is indicated. A suggested plan.... drill out from under the surface casing with a viscosity of 34 sec/qt...increasing 1 second per 1000 feet drilled, resulting in a viscosity of 40 at the primary zone of interest (5500 approx.)

Elledge Consulting & Production Compar

KENAI OIL AND GAS INC.

RECEIVED -

AUG 17'87

COMPLETION HISTORY

- 6-15-81 MI & RU Action Rig #6. Receive 174 jts 2 3/8" 4.6# EUE tubing (5/5/26). RIH with 4 7/8" bit and bit sub (3.00") and 138 jts tubing (4565.75") and tag "DV" tool at 4570" K3. SDFN.
- Drill "DV" tool at 4570' in 1½ hrs. Circulate hole clean. Continue in hole with 169 jts tubing and tag at 5578' KB. Drill on metal 1 3/4 hrs and drill out to float collar with 171 jts (5657.64'). Drill float collar and out to 5678' KB. Circulate hole clean. Roll hole to 2% KCL water with 130 bbls. POOH. SIFN.
- Rig up G.O. Wireline and ran CBL-VDL from 5663 to 470'. Satisfactory bond. Rig up HALCO and pressured casing to 3000 psi, 5 min, no bleed off. RIH with 171 jts tubing 5657.61') with seating nipple 1 jt up (.80') and set EOT at 5664' KB. Made 25 runs and swabbed hole dry. SIFN.
- POOH. Perforate lower Gallup with holes at 5654, 54, 50, 50, 49, 49, 48, 48, 40, 39, 38, 38, 32, 32, 24, 24, 07, 07, 04, 04, 5596, 96, 95, 94, 93, 93, 76, 76, 44, 44, 39, 39, 38, 38, 37, 37, 28, 28, for total of 38 holes. Rig down G.O. RIH with 171 jts tubing with seating nipple 1 jt up all measuring 5638.41' and place EOT at 5664' KB. Made six runs and recovered 6 BLW. Set up Merla test chart and 2" orifice tester with %" orifice. No flow. Left open overnight.
- SITP zero. No gas show at all. Made one swab run-had 2 bbls water in tubing. POOH with 2 3/8" tubing and RIH with Halco RTTS and seating nipple on top, RTTS (4.50"), SN (.80"), 161 jts 2 3/8" tubing (5326.87") and land at 5338 KB. Fill backside with 2% KCL water and test RTTS to 1000 psi, held 5 min. Pumped 15 bbls 15% HCL, 2 gal/1000 NE agent, 2 gal/1000 Clay stabilizer, 2 gal/1000 Inhibitor, 2 balls per bbls in next 33 bbls for total of 48 bbls 15% acid-some ball action displaced with 35 bbls 2% KCL water. Pumped 6 bpm at 2600 psi. ISIP 400 psi, 5 min 200 psi, 10 min 200 psi, 15 min 200 psi. Bled back 20 bbls into truck and approx. 5 bbls into pit. Rig up swab, make 3 runs and pull 20 bbls, tubing dry. 83 total load and 45 flowed and swabbed back. 38 BLW yet to be recovered. SIFN.
- 51CP zero, SITP 50 psi. Ran swab, FL at 3500', had trace of oil and slight show of gas. Rel. RTTS and lowered pkr thru perfs POOH. Rig up HALCO and frack with 57,000 gal 30# crosslinked gel containing 67,000# 20/40 sand and 52,000# 10/20 sand. Air 40 bbm at 1,000 psi avg. trt. pressure. ISIR 900 psi, 15 min SIR 790 psi. Left SI for weekend. 1442 BLW to be recovered.
- 6-21-81 Sunday Crew Off
- 200 psi on casing flowed back approx. 20 bbls frac water. Rig up G.O. Wireline and set Baker ret. 3P at 5520' KB. Run l jt. 2 3/8 (33.07) Standard SN (.80) 163 jts. 2 3/8 (5439.16) and land at slips 5500' KB. Make 21 swab runs and swab dry. TOM. Rig up G.O. and perforate as follows: 5482, 81, 80, 79, 70,70,72,32,46, 45, 44, 42, 29, 19, 10, 9, 3, 7, & 6. Total of 20 holes after perforating 5482' to 5406' panel quit working on truck. Set up Merla Tester on %" choke and left open for night.

Kenai Oil & Gas And. New Mexico State #3 Section 32, T24N, R8W San Juan County, New Mexico

Elledge Consulting & Production Com

COMPLETION HISTORY CONTINUED

Opsi and no flow on Merla Tester on arrival. Rig up G.C. and DISTESS perforating upper Gallup as follows: 5405, 04, 5388, 79, 76, 71, 70, 68, 60, 39, 20, 13, 5297, 96, 95, 94, 93, 92, 79, 78, & 77. Total of 41 holes all total. RIH with 5½" RTTS pkr (5.40"), SN (.80") and 166 jts 2 3/8" tubing (5492.23") and hung pkr unset at 5505" KB Made 20 swab runs and recovered 80 BW and was swabbed dry. Left open on ½" orifice with Merla recorder connected for night. No visible flow.

No flow, nor had it flowed overnight, O psi on chart-fluid level at 3300'. Made 2 swab runs and no show of oil. Circ. hole with 2% KCL and test BP to 3000 psi, held for 5 min. No bleed off. Spotted 2 sx sand.on BP and pull RTTS to 5074.51' KB and set pressure back side to 1000 psi and held 5 min. no bleed off. Pumped 15 bbls. 15% HCL with 2 gal./1000 NE + 2 gal./1000 claysta II+ 2 gal./1000 Inhib. 33 bbls. 15% HCL with 70 5/8" balls - Pumped 2 BPM at 2800 psi until acid hit formation and broke to 5 BPM at 1800 to 2200 psi - saw some ball action but no ball off. Displaced with 30 bbls. 2% KCL water for total load of 81 bbls. ISI 250 psi 15 min 230 psi. Flowed back 9 bbls. and died. Rig up and swab & made 20 runs, recovered approx. 80 BLW - fluid level at 2300'. SIFN. Analysis show load water from 1st stage frack. Trace of gas in swabbed fluid.

SITP 60 psi. Blew off in one min. all gas. SICP zero. IFL 1300' - show of oil on top. Release RTTS and run thru perfs. TOH with RTTS. Rig up Halco to frac. with 57,000 gal. 30# cross linked gelled 1% KCL water containing 1 gal./1000 gal NEagent and claystay, 67,000# 20/40 sand and 52,000# 10/20 sand. Flushed with 6500 gal. 2% KCL water AIR 42 BPM. Max. Trt. psi 1350, min. trt. psi 1100, avg. trt psi 1200. ISIP 700 psi, 15 min. SIP 660 psi. Total LW to be recovered 1607 bbls. SIFN.

SICP 500 psi - open thru 2" and flowed frac. water approx. 75 bbls. in 2 hrs. TIH with Baker ret head (2.35) 2 flapper valves (2.00) 1 jt. 2 3/8 (33.08) 1 flapper valve (1.00) 8 stands 2 3/8 tubing (529.40) 1 drain valve (1.20) 8 stands (530.01) 1 drain valve (1.20) main bailer valve (3.45) 134 jts. tubing (4432.72) tagged sand at 5480 (40' of fill) tagged BP at 5520' with 167 jts. Released BP and TOH (well flowed a slow stream of water until BP was released) TIH with 2 3/8 notched coller and Hyd. bailer as above. Tag sand at 5610', cleaned out to 5675' KB (171 jts.) TOH with Hyd. bailer. SIFN (very little sand in tubing, will trip in hole in morning with Hyd. bailer).

5109 - 20 psi - Gas blew off in 15 sec. TIH with 1 jt. (33.07) standard TSN (.80) and 170 jts (1624.57) and tried to land at 5666.44 KB but sand had filled to 5620 TON with tubing. TiM with Baker hydrostatic bailer. sawtooth collar (.50), flapper valve (.80), 1 jt. (32.08). FV (.80) 19 jts. (623.52) drain valve (1.0), 1 jt. (30.07) bailer valve (3.0), 151 jts. (4961.97) + 8' on jt. 172 + 7' KB to 5678.74' KB. TOH with bailer. TIH with 1 jt. (33.07) standard SN (.80) 170 jts. (5624.57) and landed 8' below KB = 5666.44' KB. Nipple down BOP and land in head. Rig up to swab. SIFN.

SEP 23 1981 OIL CON. COM. DIST. 3

COMPLETION HISTORY CONTINUED

- 6-28-81 Sunday Crew Off
- 6-29-81 SICP and TP zero. Ran swab. IFL 300 ft. Made 40 swab runs in 9 hrs. into tank, recovered 240 BLW, FFL 2300'. No show of oil or gas final CP zero. 2848 BLW yet to be rec. SIFN.
- 6-30-81 SITP zero. SICP 70 psi. Ran swab, IFL 1400'. Rainbow of oil on 1st run, no shows rest of day. Made total of 37 runs and recovered 180 BLW. FFL 3500'. FCP 170 psi. 2668 BLW yet to be recovered. SIFN.
- SICP 325 psi, SITP 20 psi, IFL 3000'. Made 24 runs and recovered 160 BLW and trace of oil. FCP 400 psi, FFL 4200'. 2508 BLW yet to be recovered.
- 7-2-81 SICP 550 psi, SITP 100 psi, IFL 3000'. 1st run 98% oil, decreasing to trace after 6 runs. Made total of 27 runs in 9 hrs. and recovered 110 BLW and 30 BO. 2398 BLW to be recovered. FCP 390 psi. Flowed intermittently last ½ hr. SIFN. FL last run 4000'.
- 7-3-81 SICP 700 psi, SITP 300 psi. Ran swab, IFL 3800'. 1st run 90% oil. Well flowed intermittlently all day. Made 14 runs in 9 hrs. and recovered 53 BLW and 31 BO. Final CP 240 psi. Final oil cut 50%. SI for weekend. 2345 BLW to be recovered.
- 7-4-81 Holiday Crew Off
- 7-5-81 Sunday Crew Off
- SICP 700 psi, SITP 300 psi, IFL 3100' 1st swab 97% oil made 11 swab runs at 25-30% oil started flowing flowed 15 to 30 min. rest of day and made one swab to start flowing each time. Total 22 swab runs. Made 66 bbls. water and 54 bbls oil in 9 hrs. Casing psi 220. FL 4600. Making approx. 500 MCF per day of gas while flowing. BLW to be recovered 2279.
- 7-7-81 SICP 550 psi, SITP 175 psi. IFL 3400'. Ran pump and rods as follows:

	Axelson 2" X 12" X 16' RWAC pump	16'
224	3/4" plain rods	56001
	3/44 peny rod	8 '
	3/4" pony rod	6 1
	3/4" pony rod	4, 1
	1%" X 22" polish rod	221
224 rods		5656

Seated pump and loaded hole with 2% KCL water. With rig, stroked pump, pumped up to 500 psi, no bleed off in 5 minutes. Close in well. Rig down rig. Job Complete.

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